

## 1 PGFplots graph samples

1.1 from <https://tex.stackexchange.com/questions/9386/difference-between-right-of-and-right-of-in-pgf-tikz> website.

centre-to-centre placing while using `right of=` option in `tikz`

loooooooooooooooooooooo**node b**ooooooooong

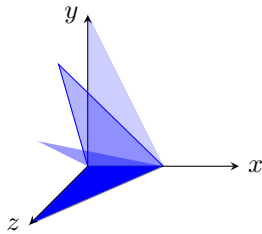
boundary-to-boundary placing while using `right=of` option in tikz

```

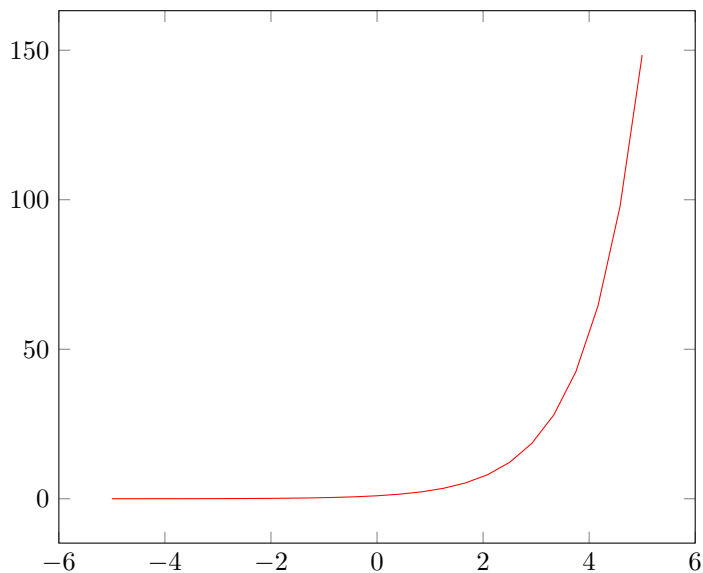
loooooooooooooooooooooooooooooooooong          node b

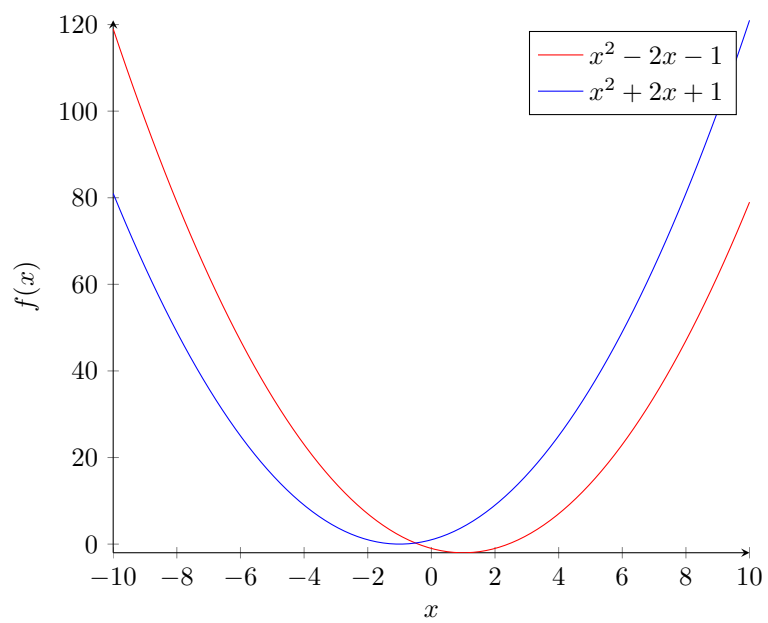
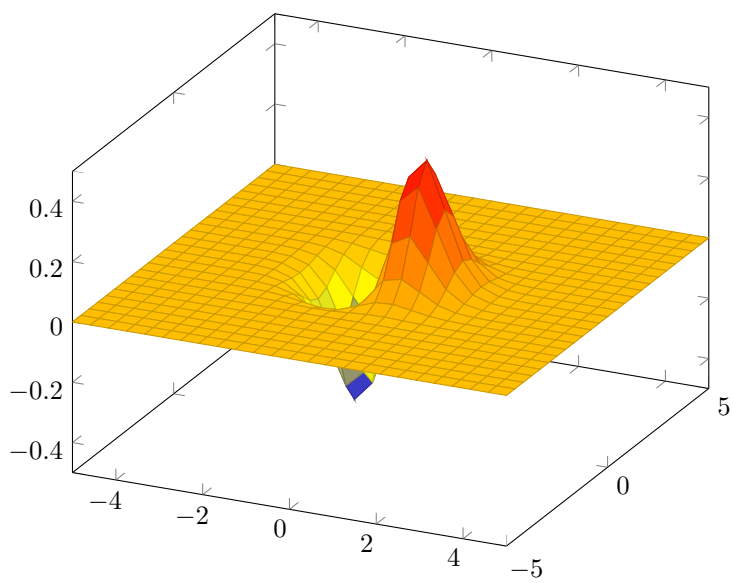
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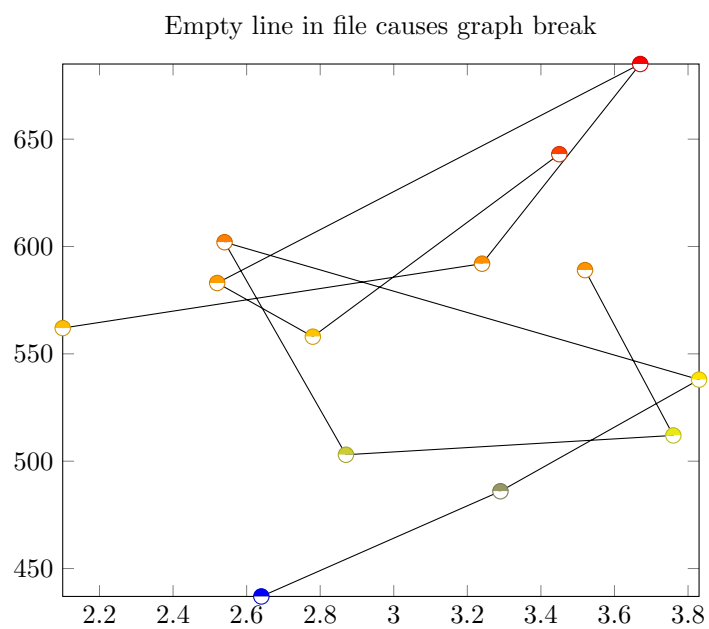
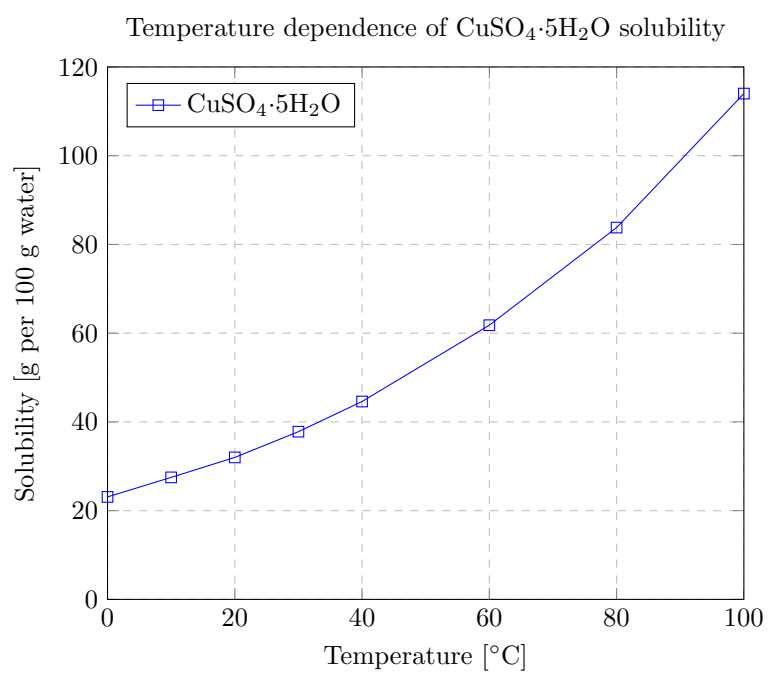
1.2 from <https://tex.stackexchange.com/questions/354401/how-to-draw-a-vector-diagram-with-tikz-datavisualization>

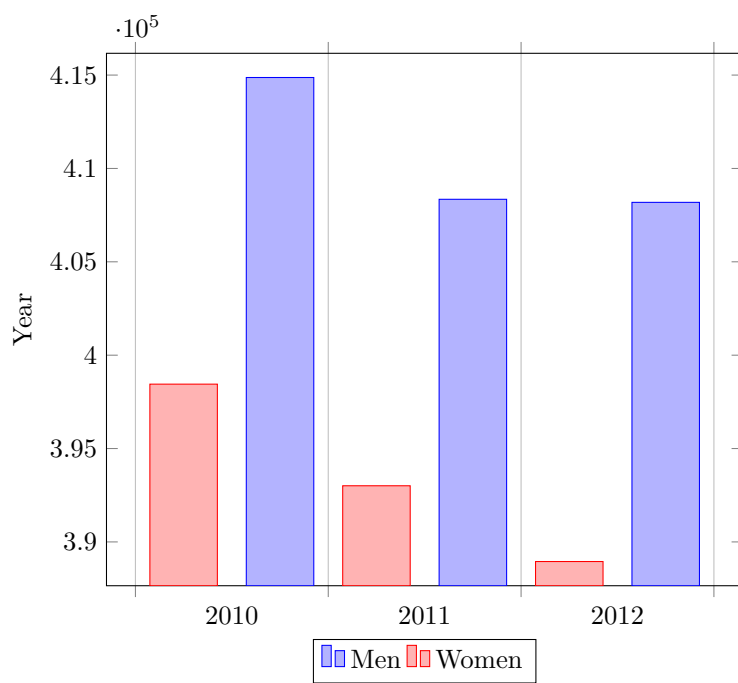


### 1.3 from [https://www.overleaf.com/learn/latex/Pgfplots\\_package](https://www.overleaf.com/learn/latex/Pgfplots_package)

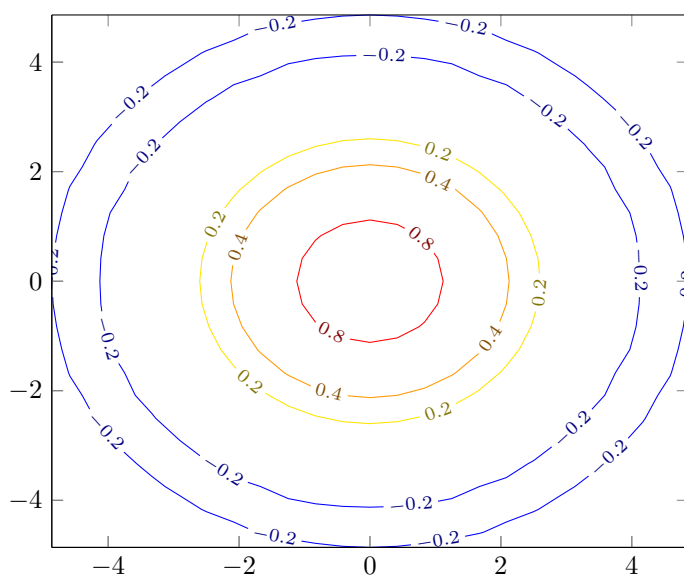


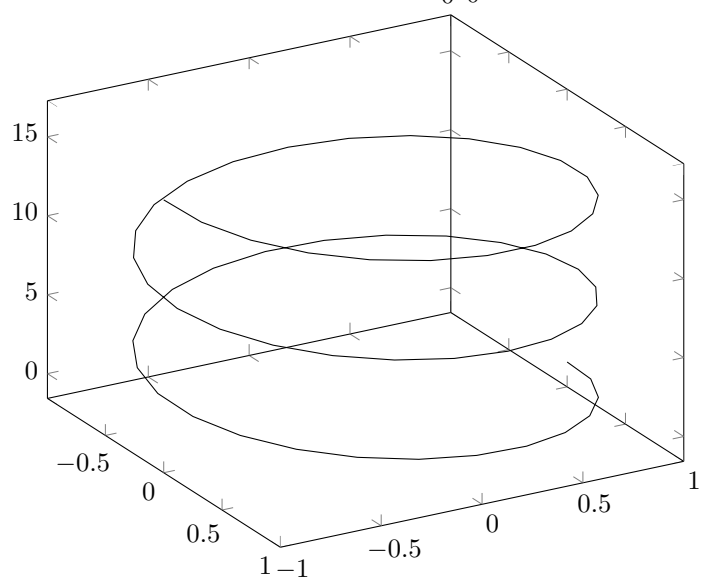
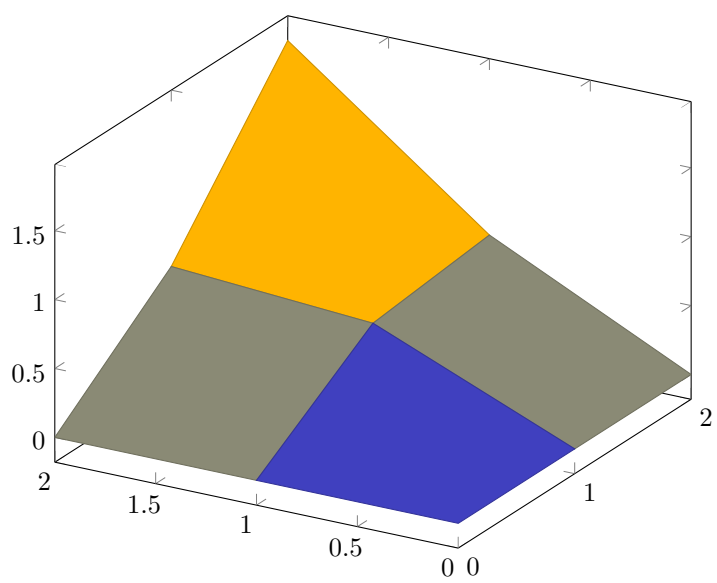






Contour plot, view from top





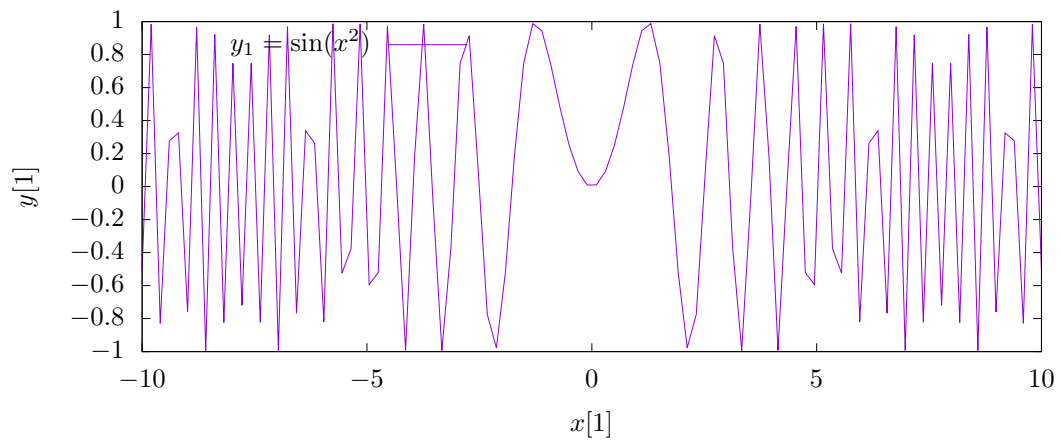
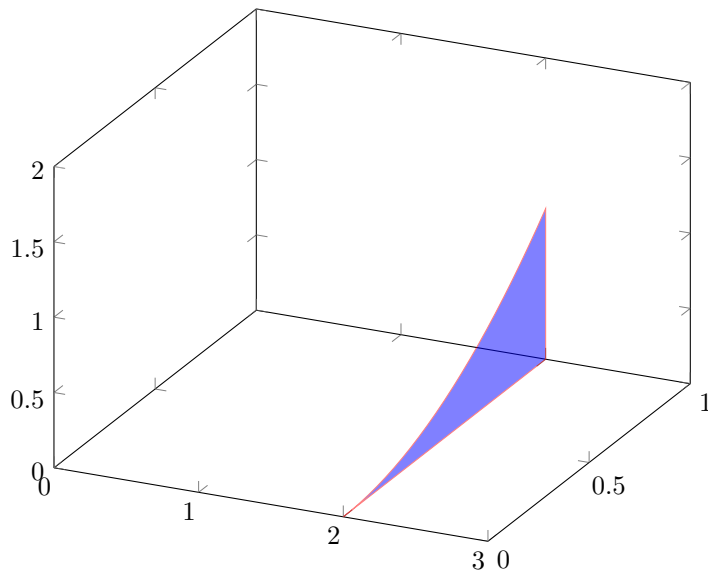
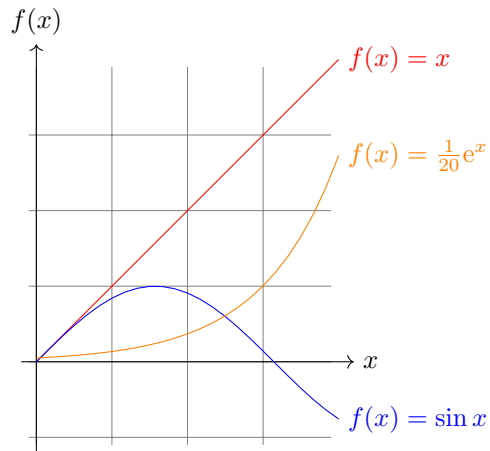
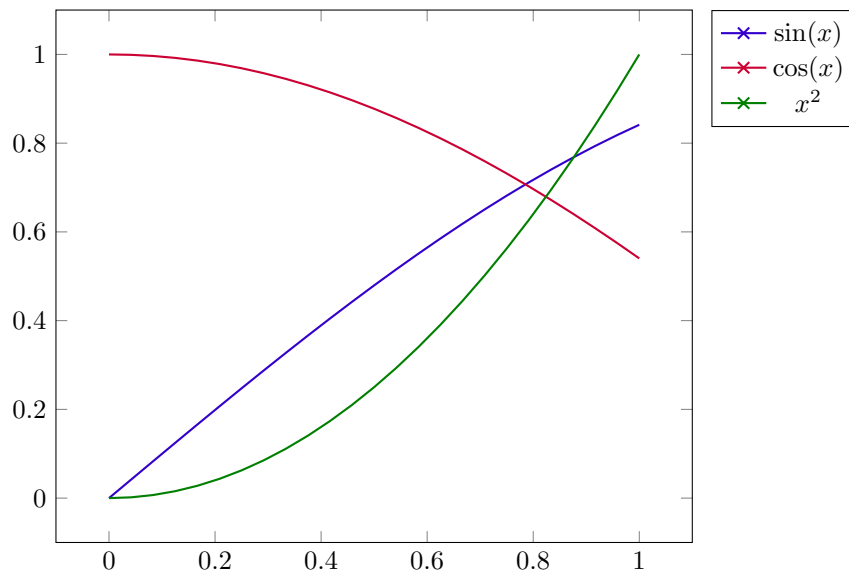


Figure 1: Plot

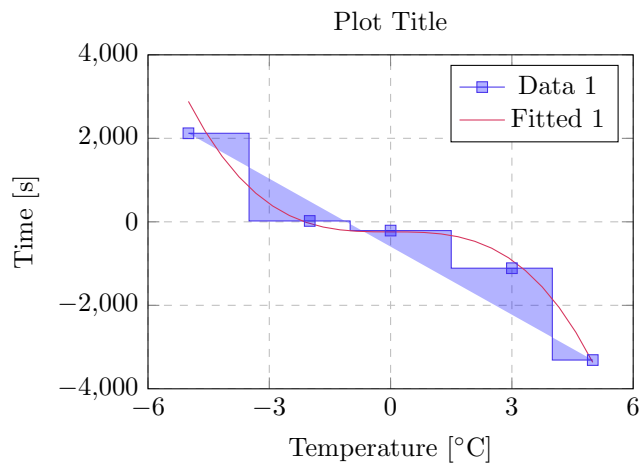
- 1.4 from <https://stackoverflow.com/questions/36386656/how-to-plot-in-latex-with-gnuplot>
- 1.5 from <https://tex.stackexchange.com/questions/136288/pgfplots-how-to-fill-area-under-a-curve-in-a-3d-plot-similar-to-closedcycle-in>



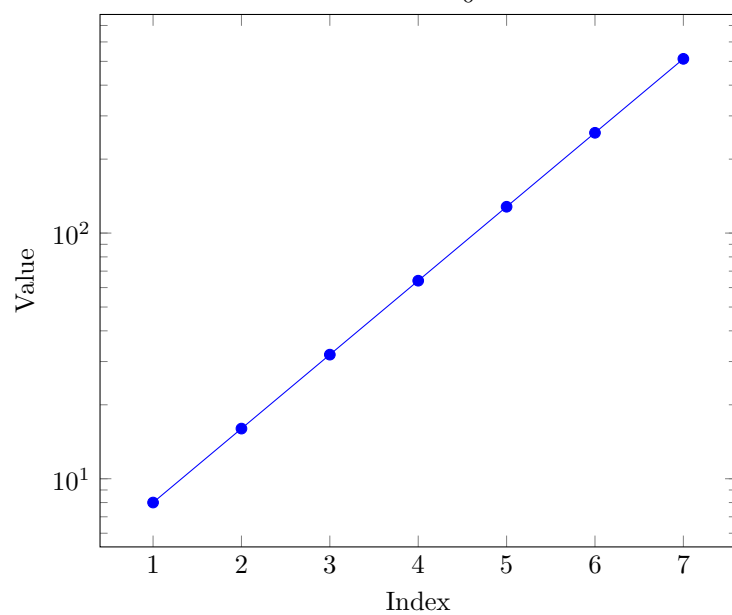
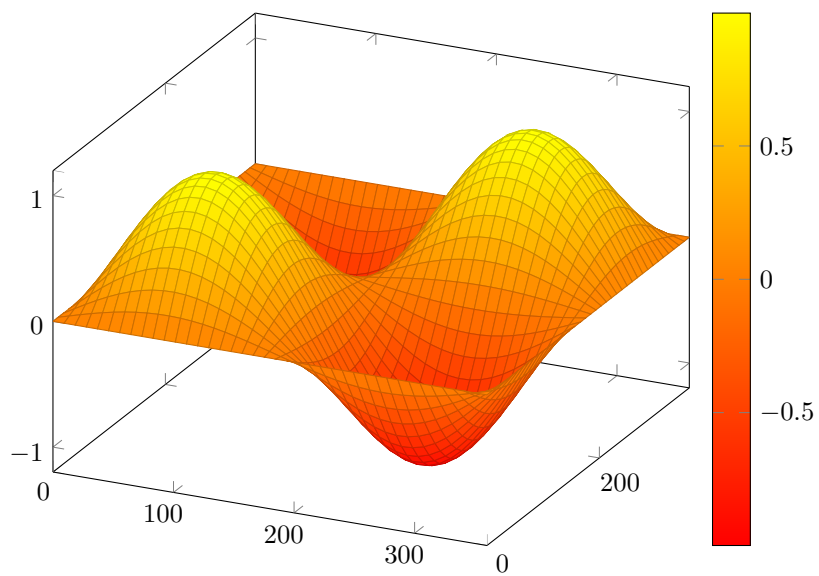
1.6 from <https://tex.stackexchange.com/questions/16232/how-to-plot-fx-sinx-kx-cosx-and-ux-x%C2%B2-with-tikz>



1.7 from

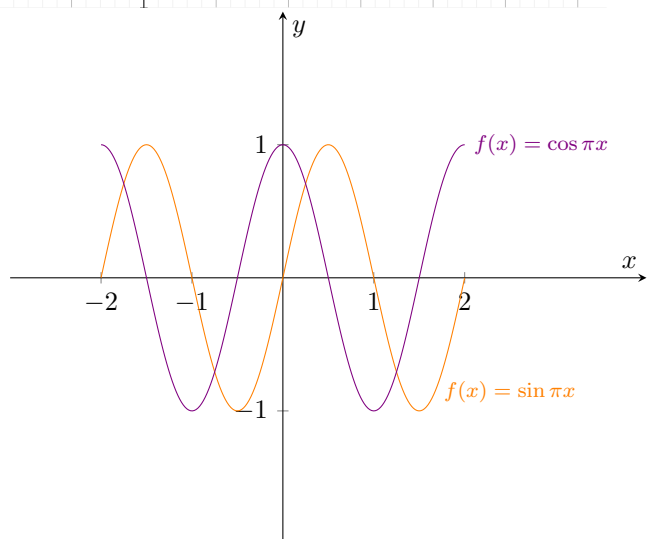
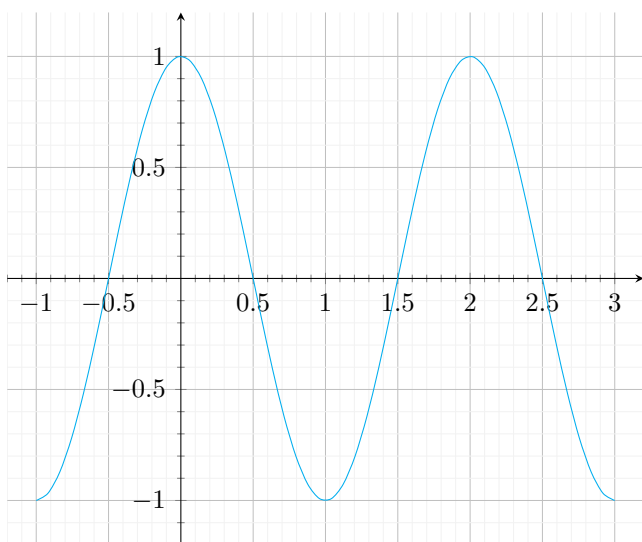


1.8 from

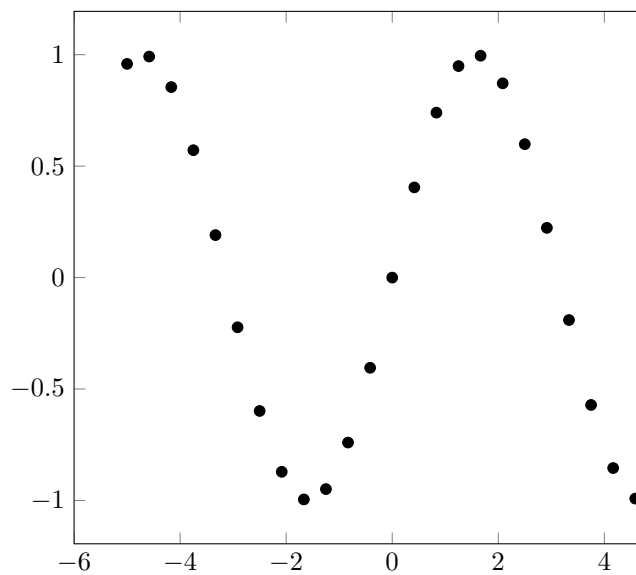
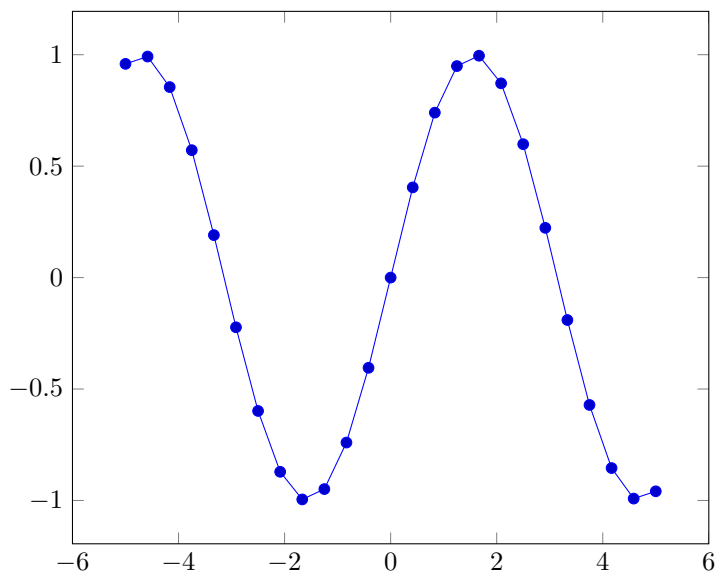
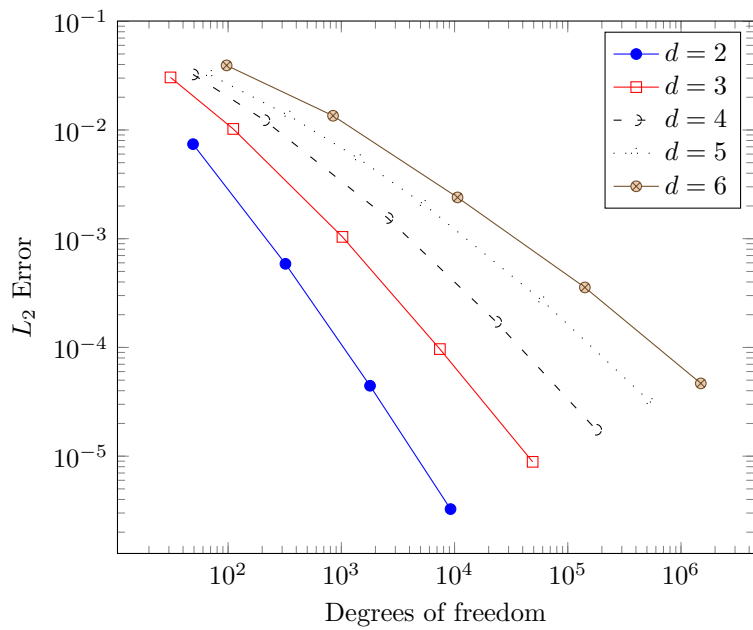


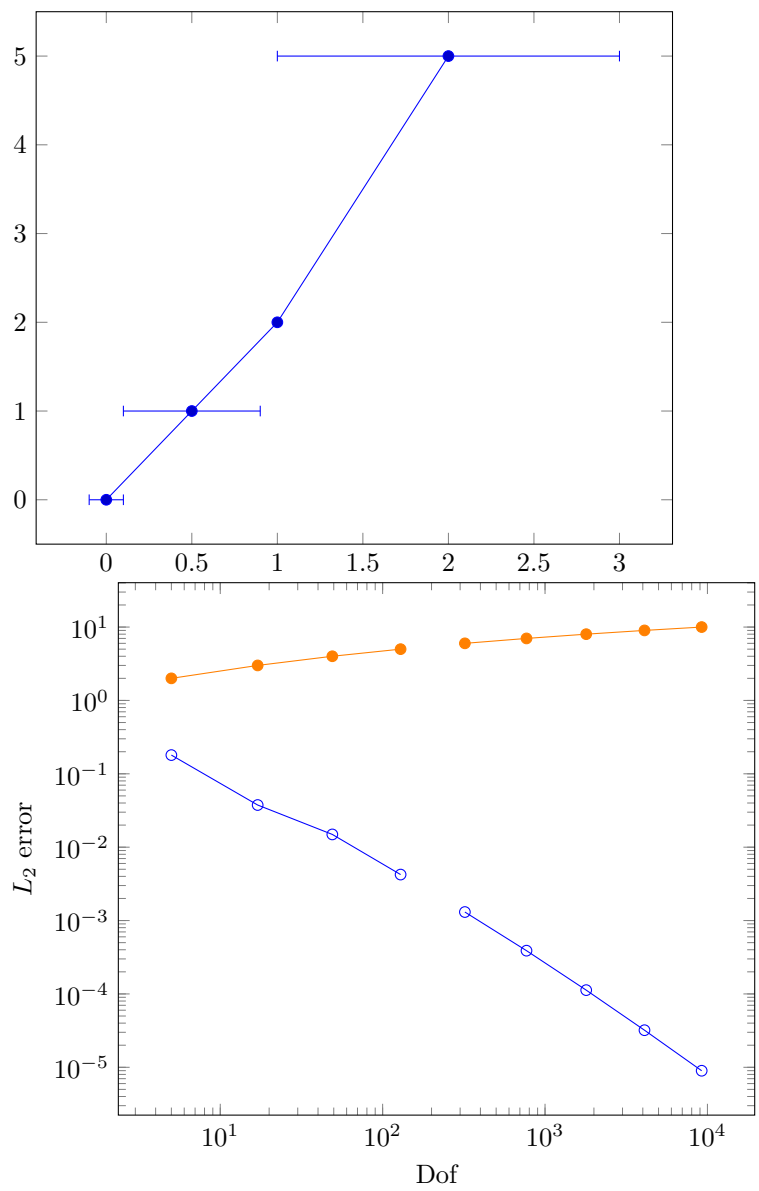


1.9 from <https://tex.stackexchange.com/questions/361915/tikz-or-pgfplots-plotting-a-trigonometric-function-cos-sin-tan>

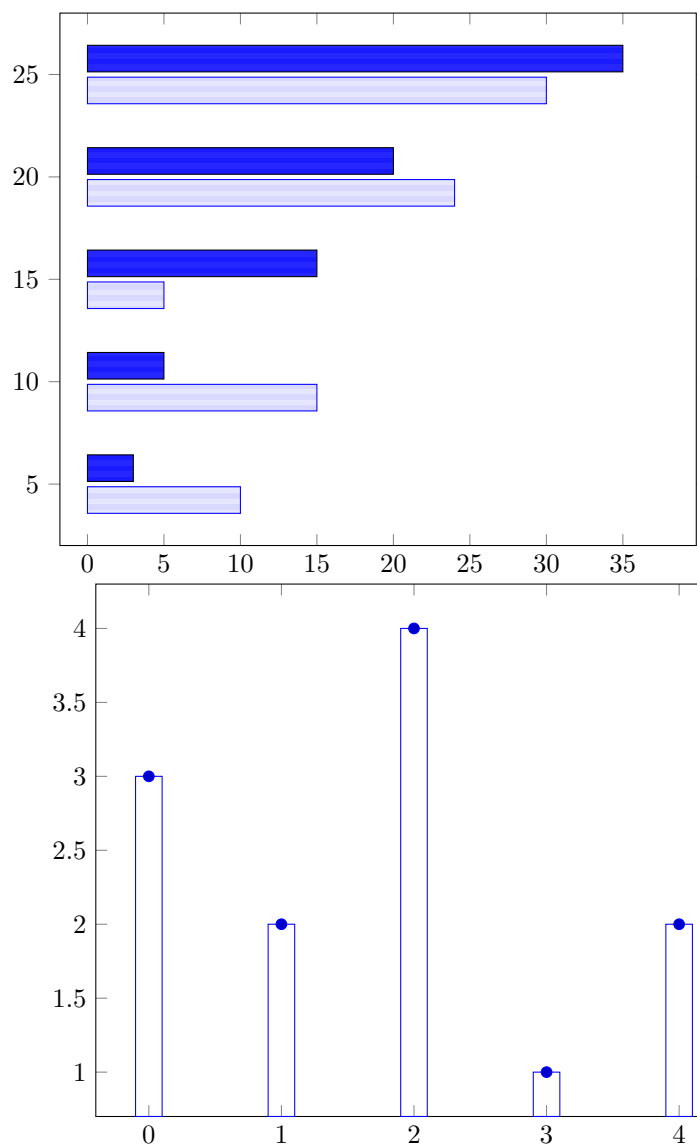


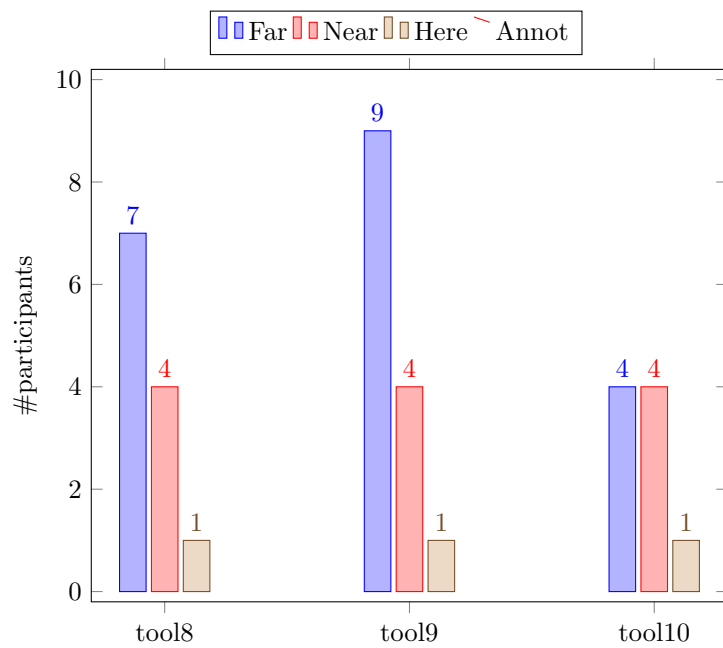
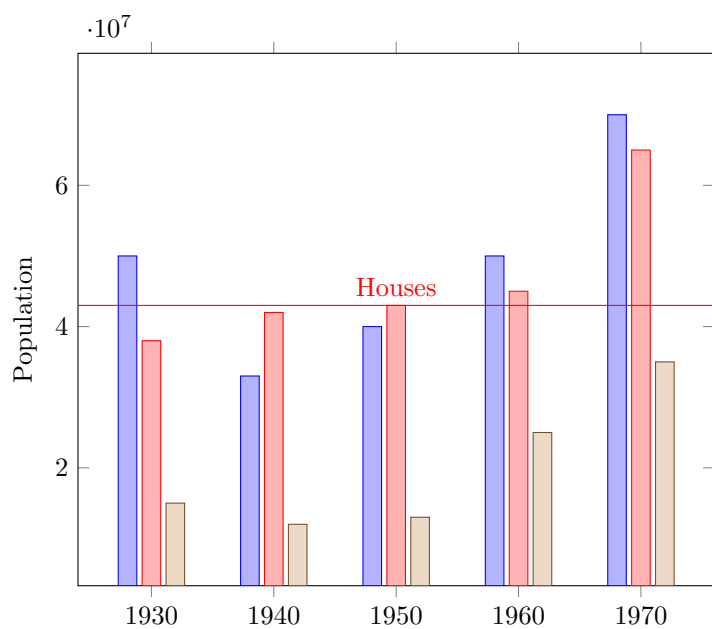
## 1.10 Line Plots

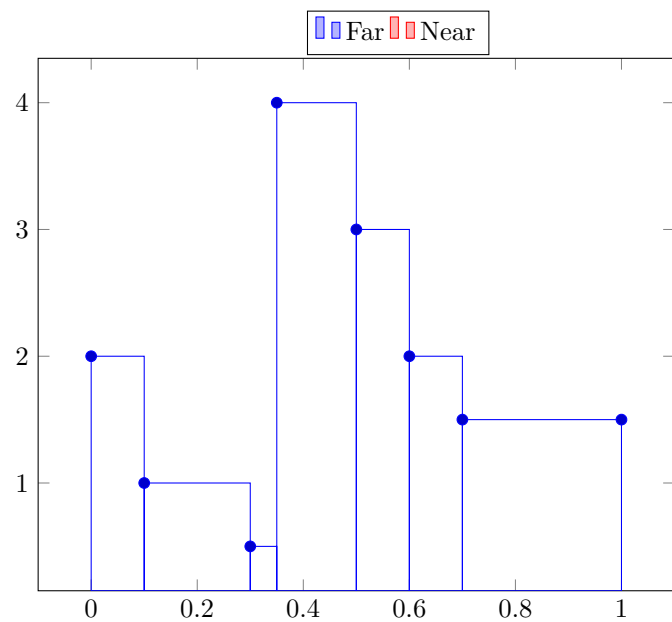
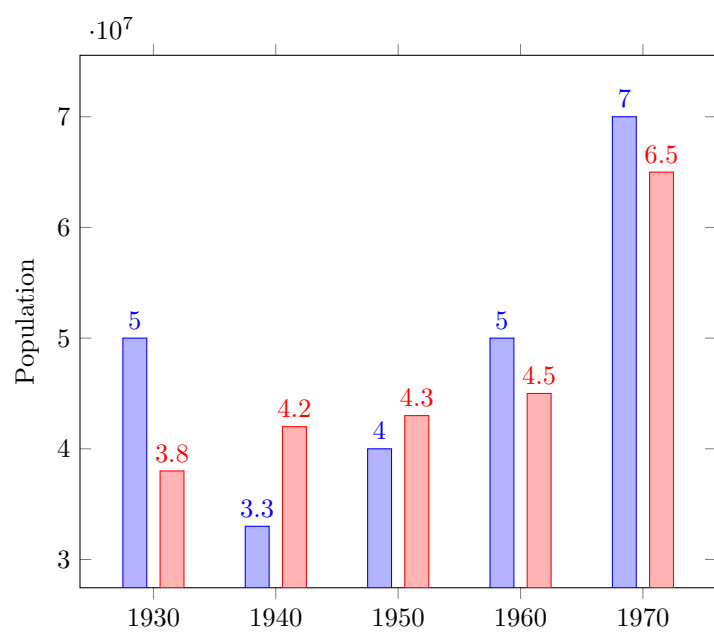


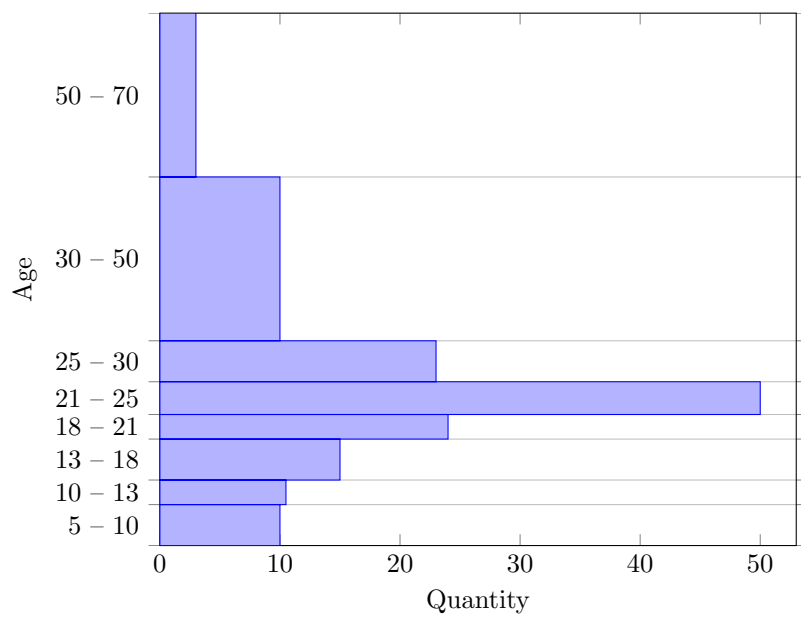
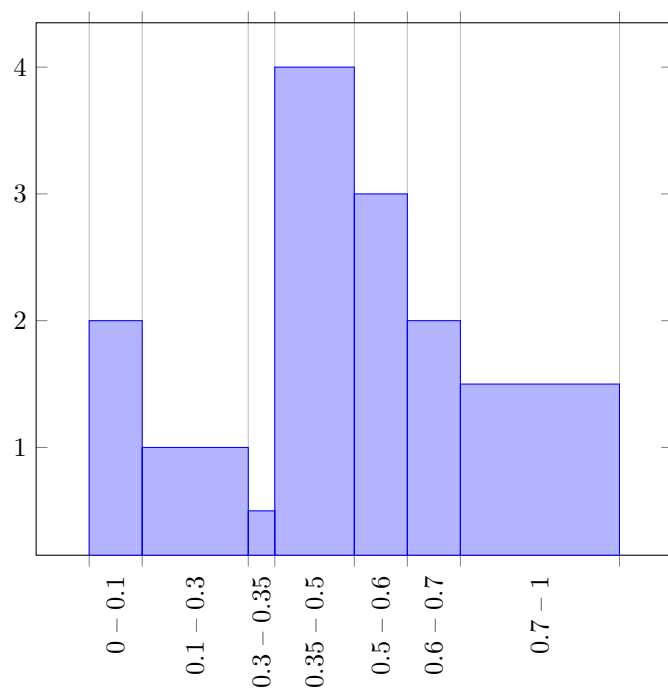


## 1.11 Bar Plots

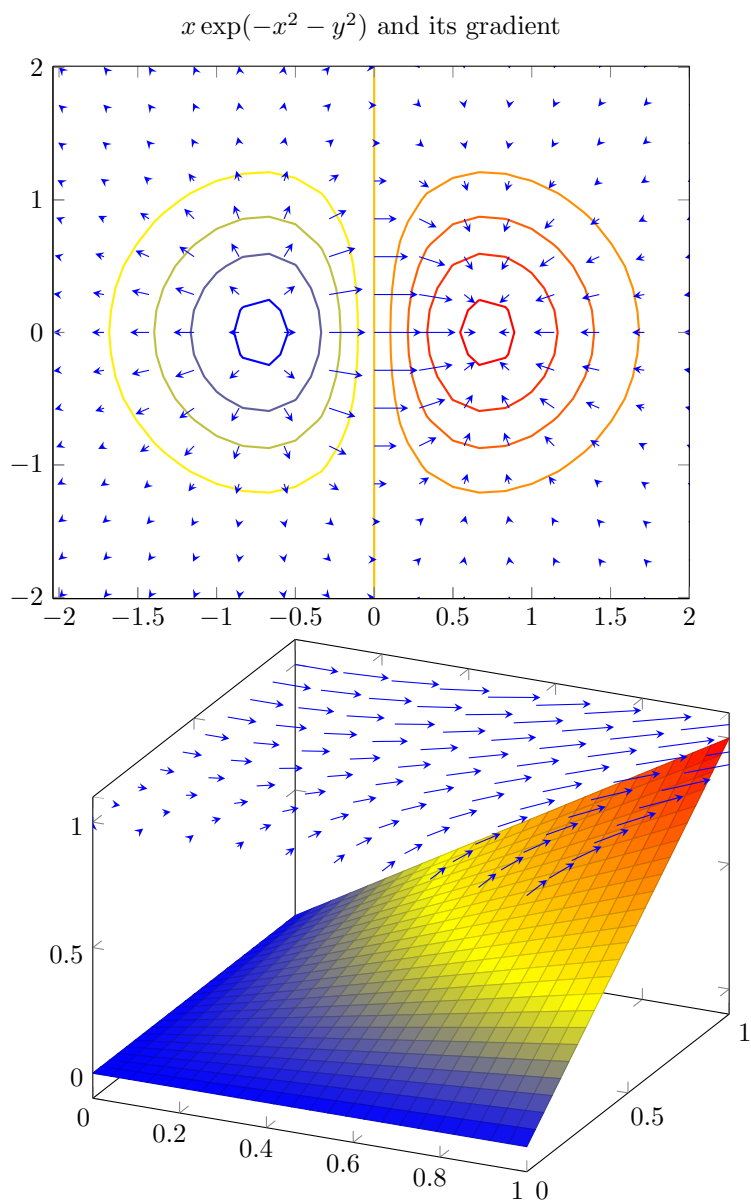






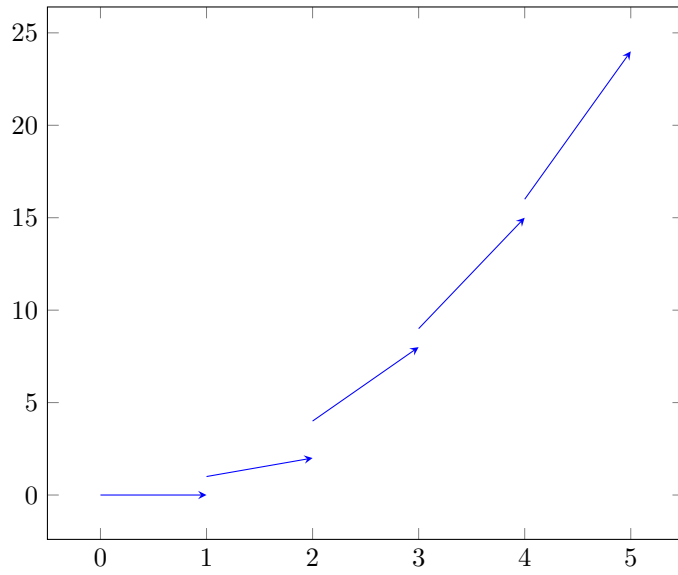


## 1.12 Quiver Plots

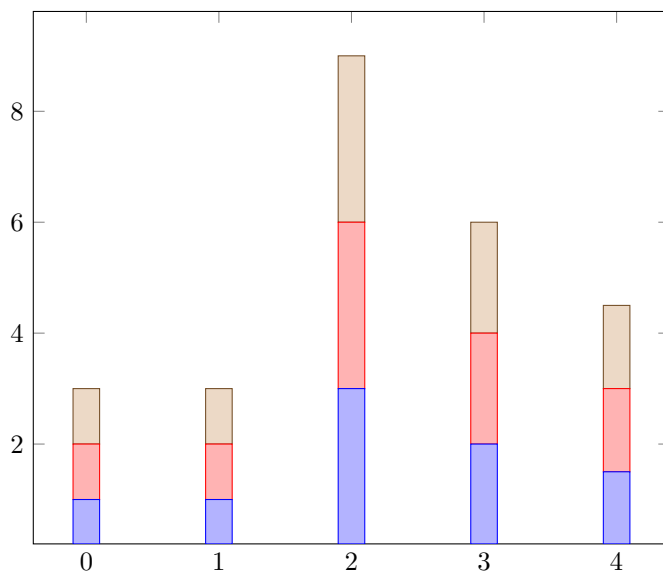


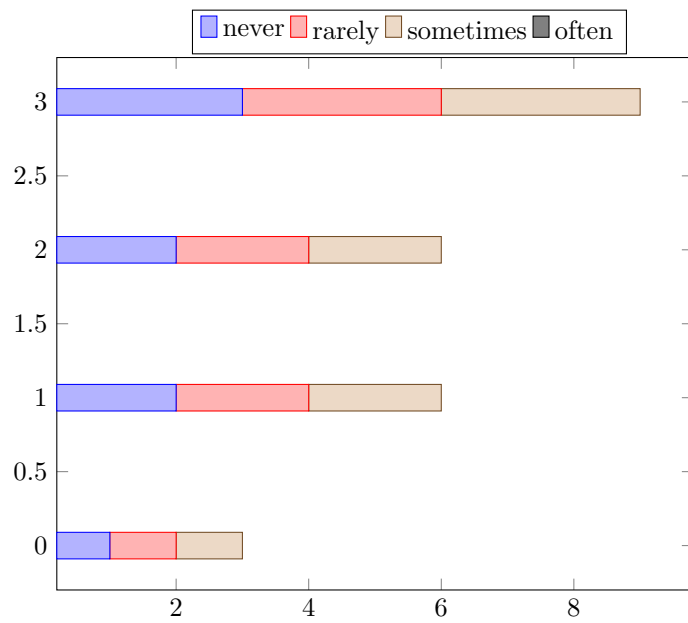
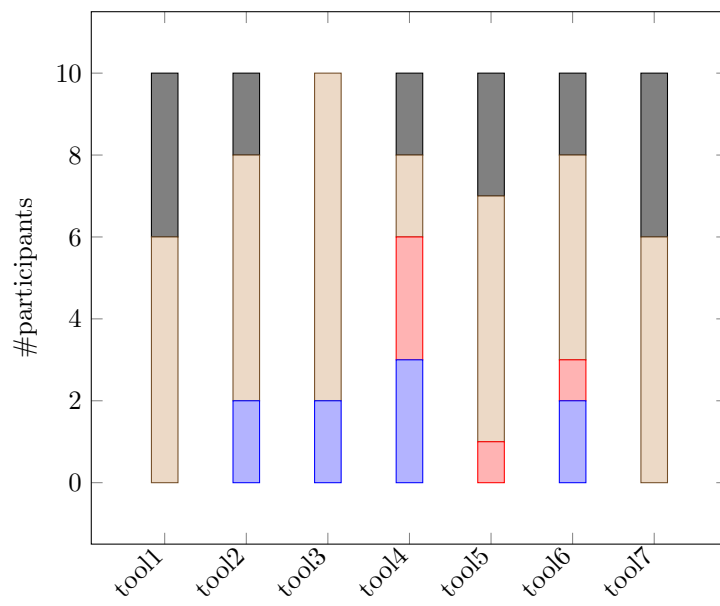


Quiver and plot table

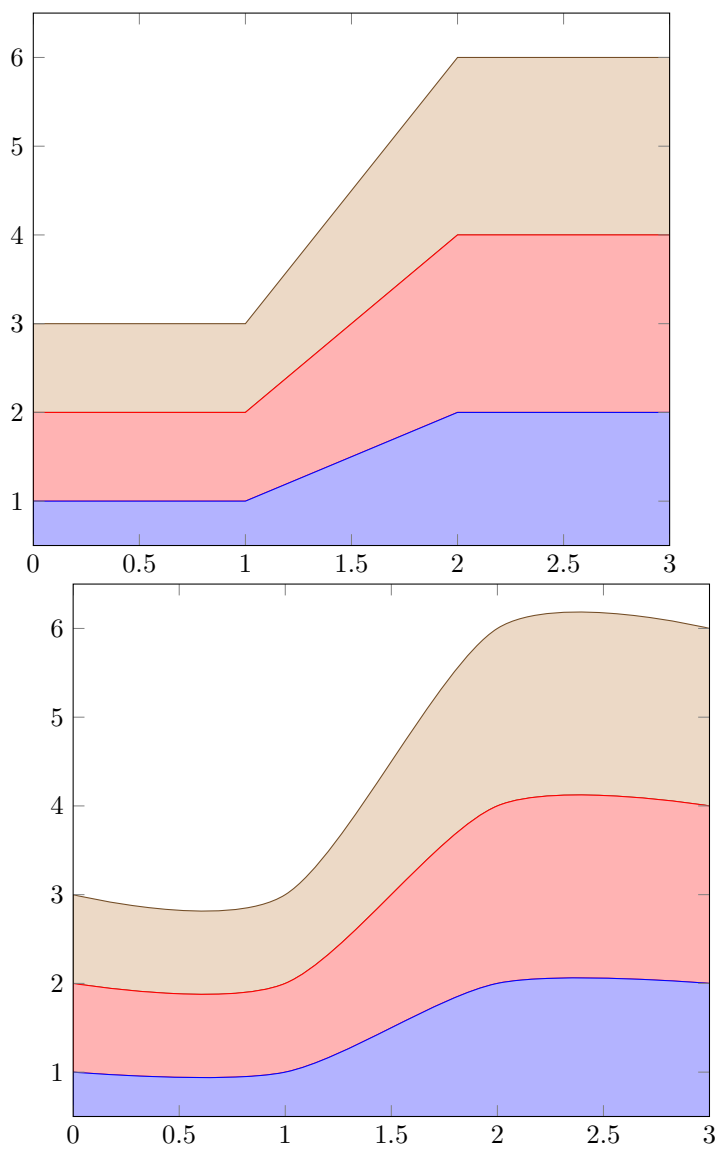


### 1.13 Stacked Plots

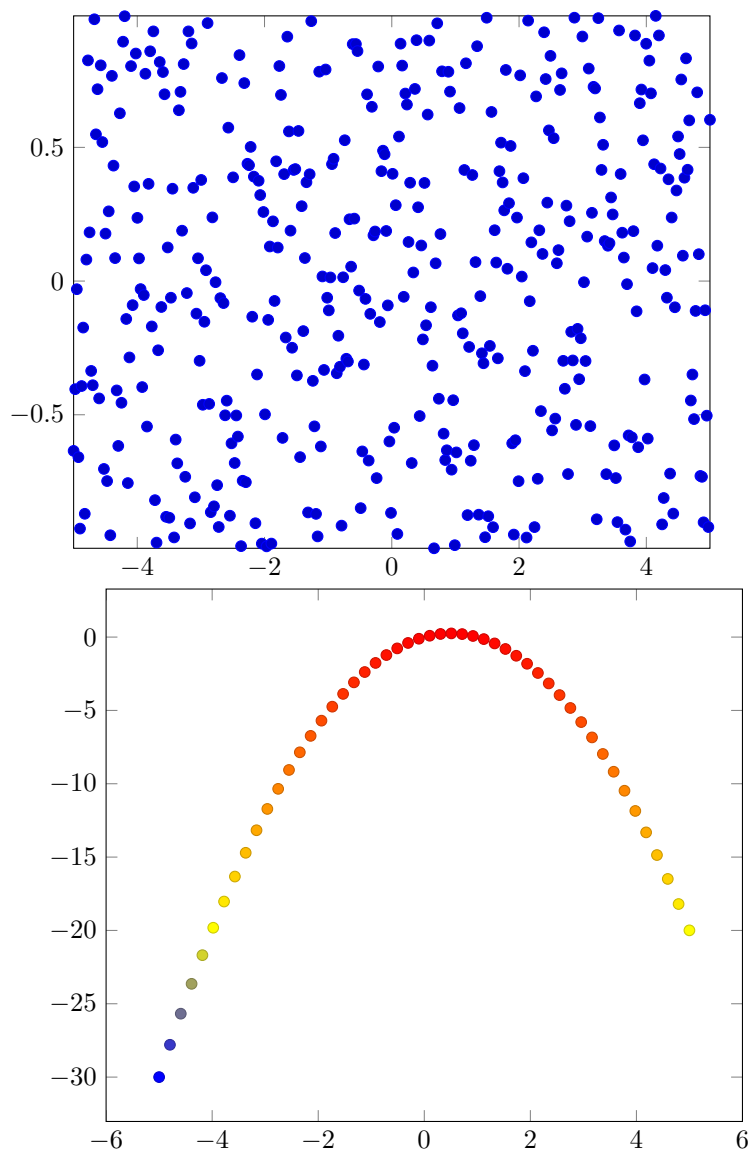




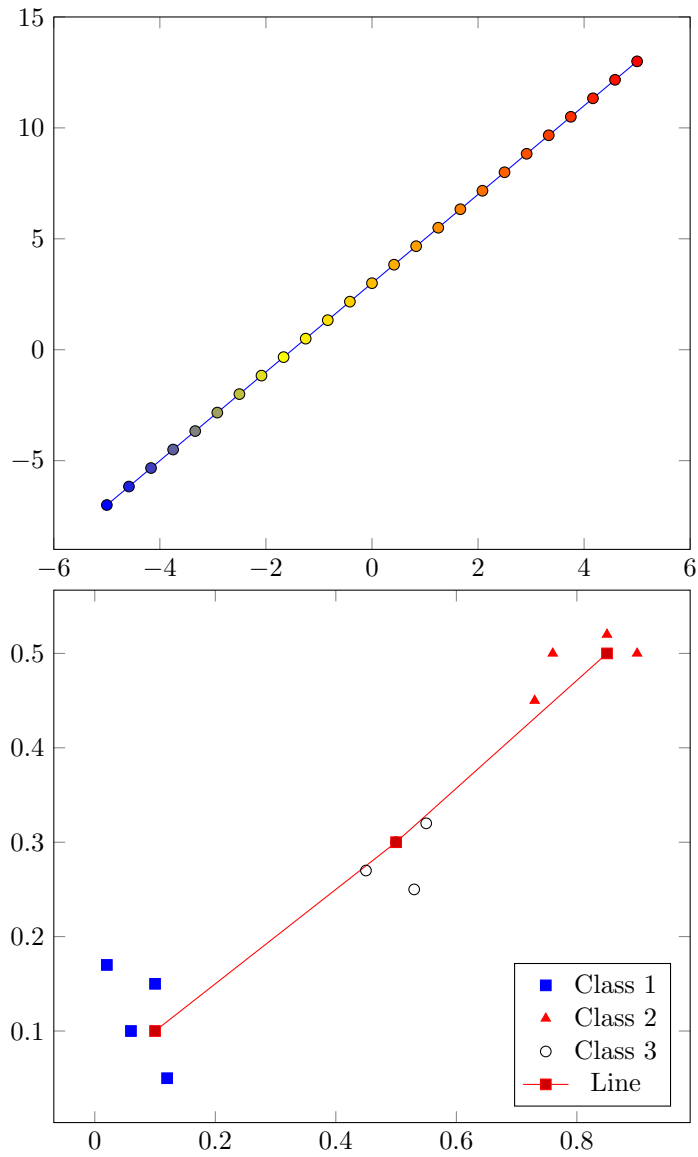
### 1.14 Area Plots

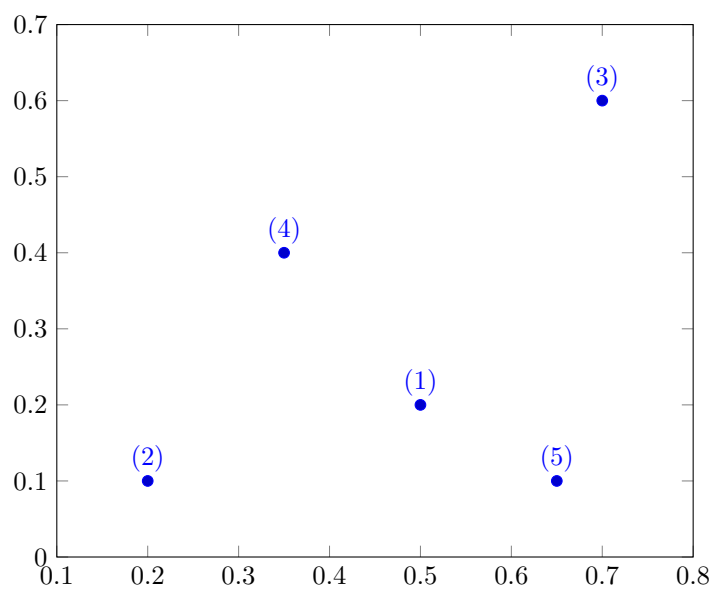
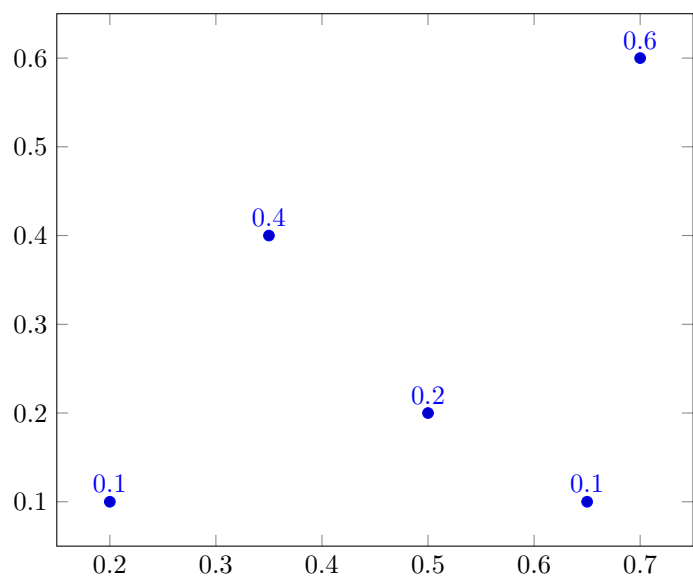


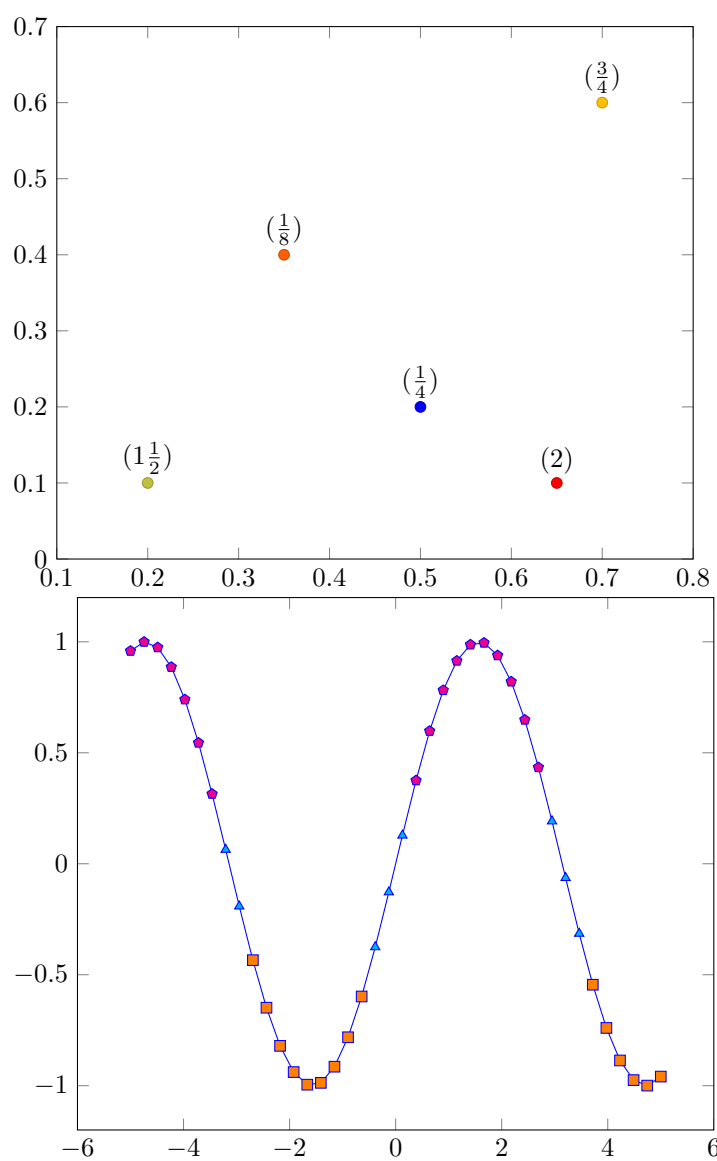
## 1.15 Scatter Plots



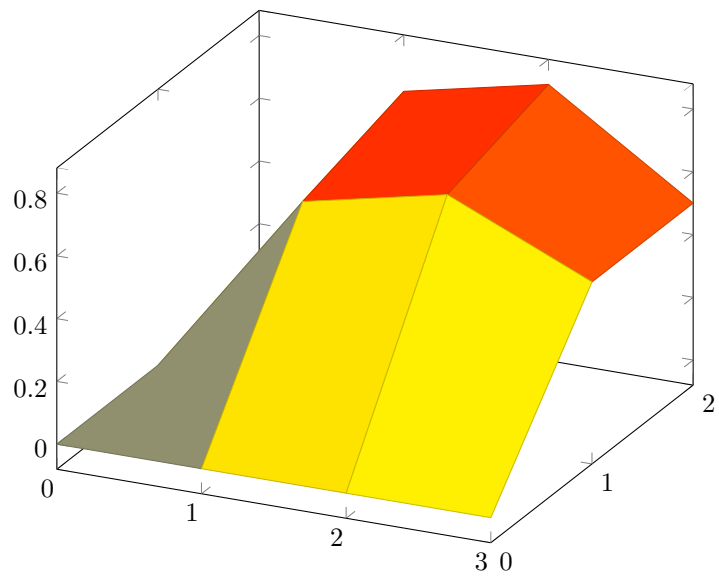
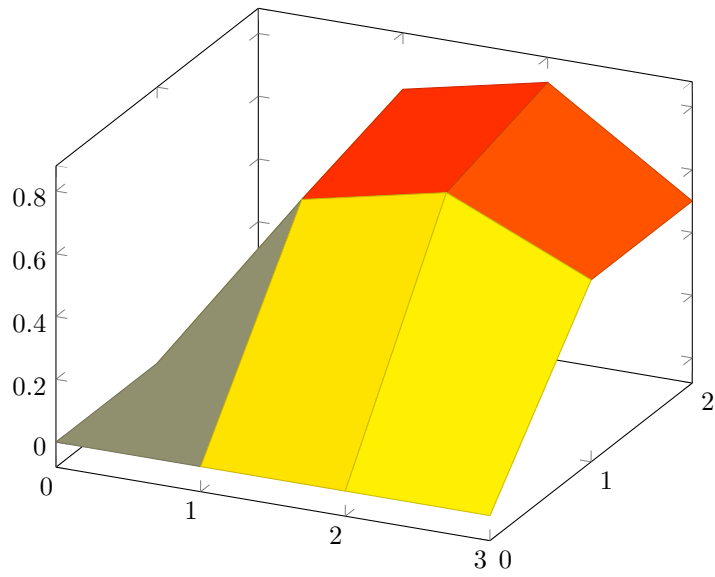
Black draw color and varying fill color



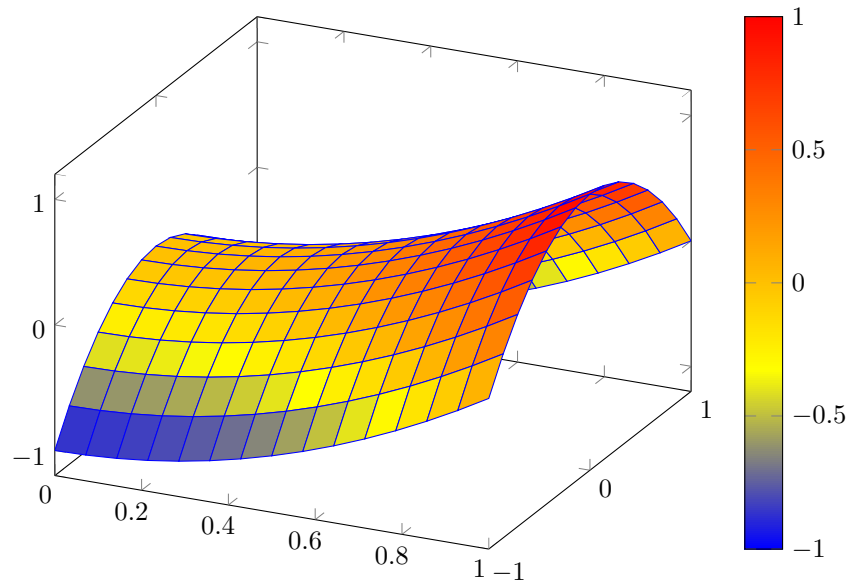
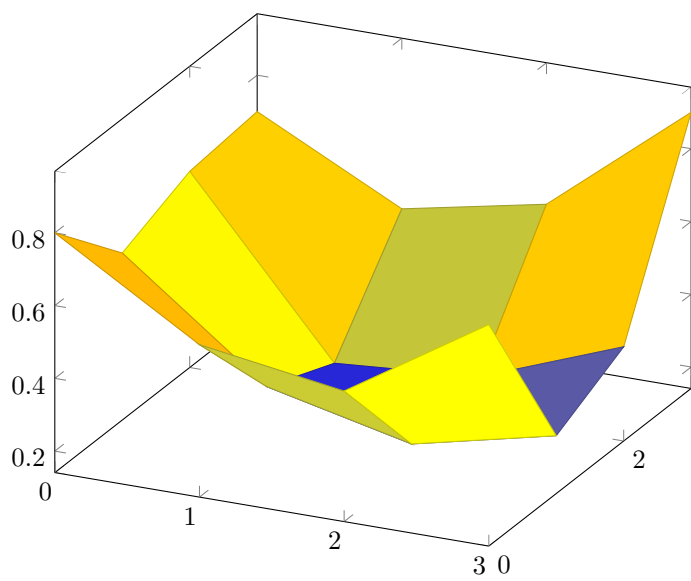


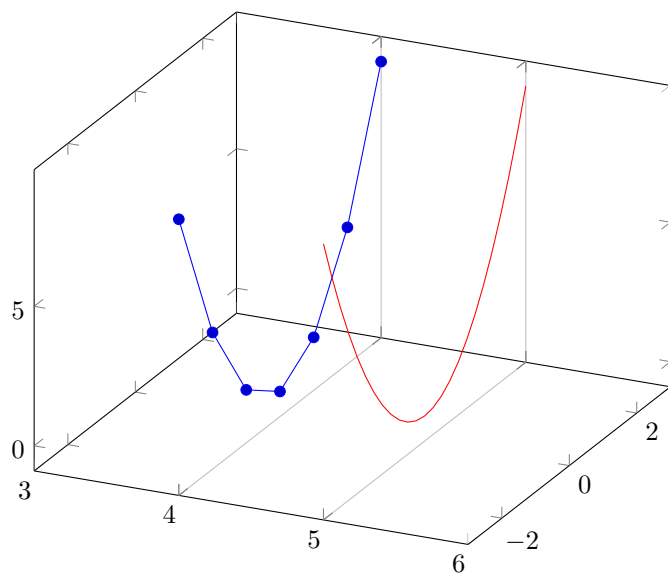
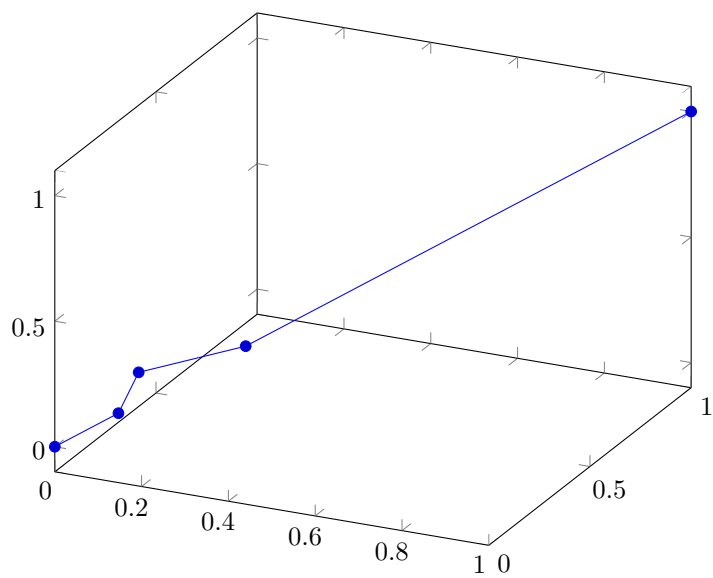
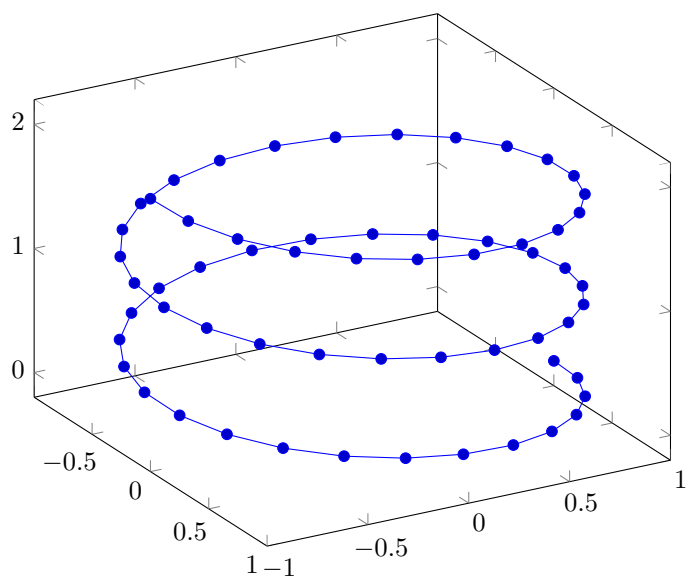


## 1.16 3d plots

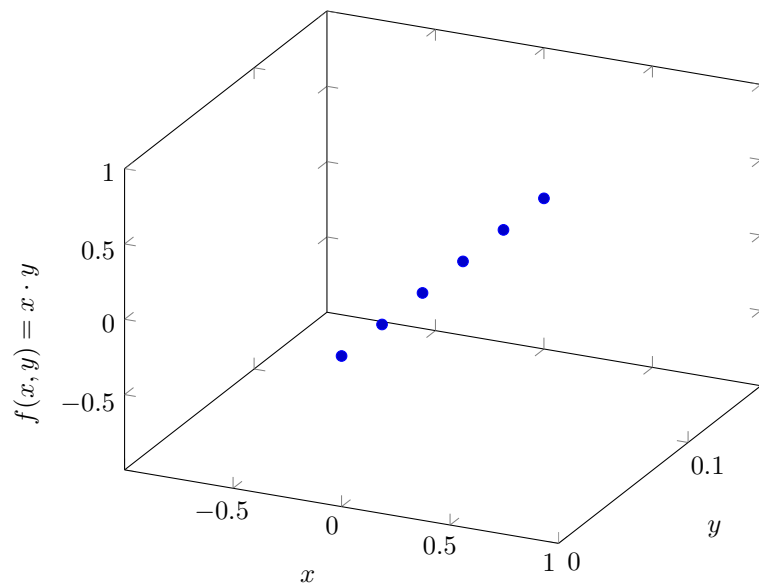




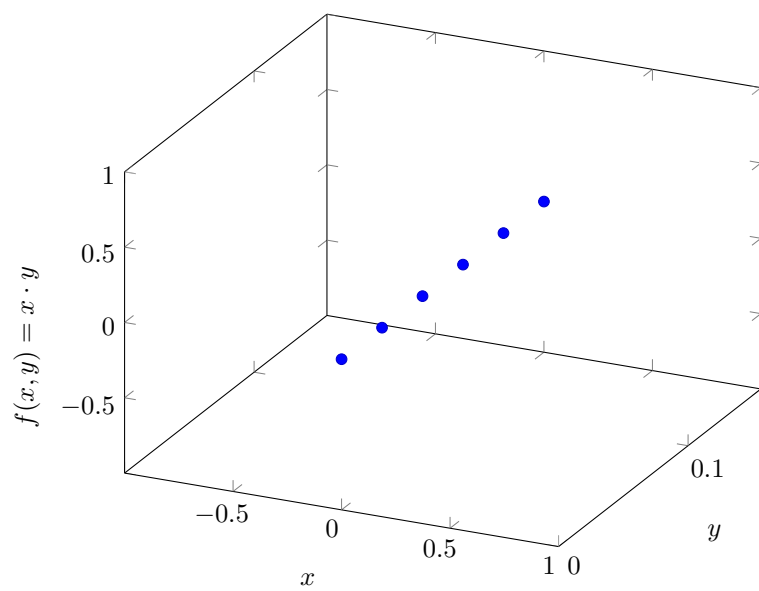


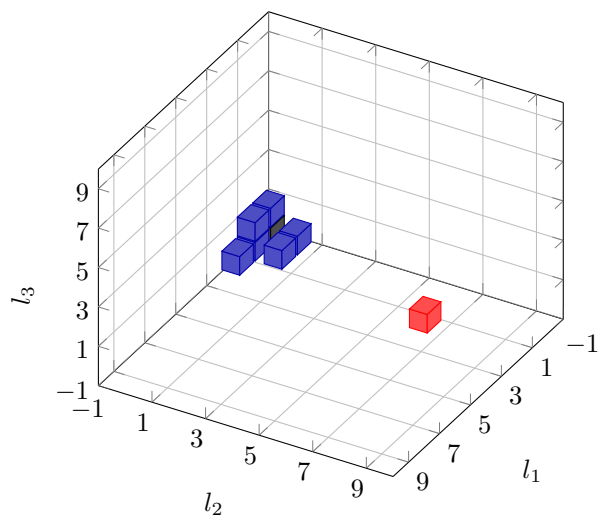


A Scatter Plot Example

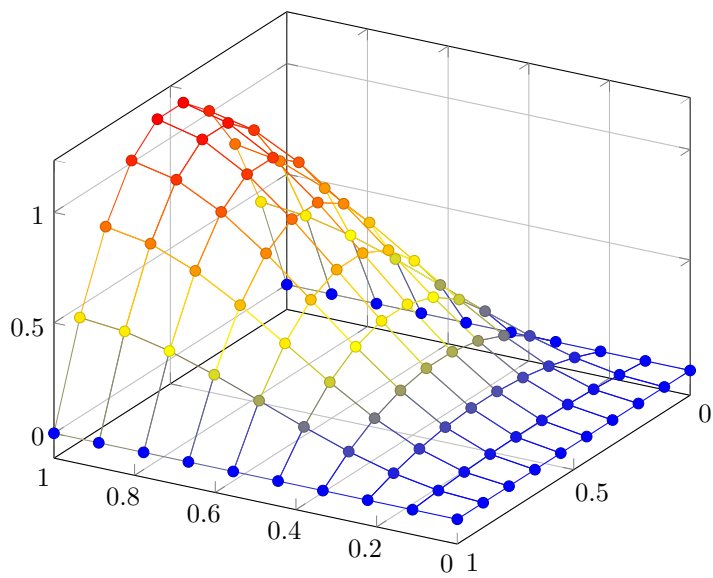


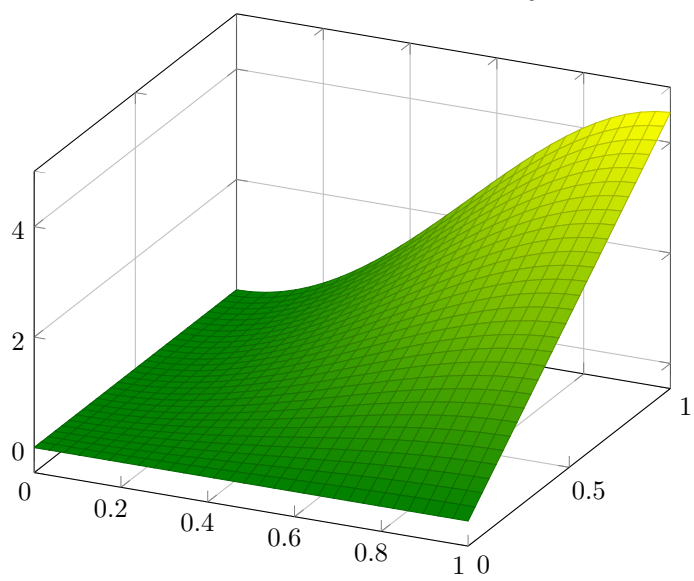
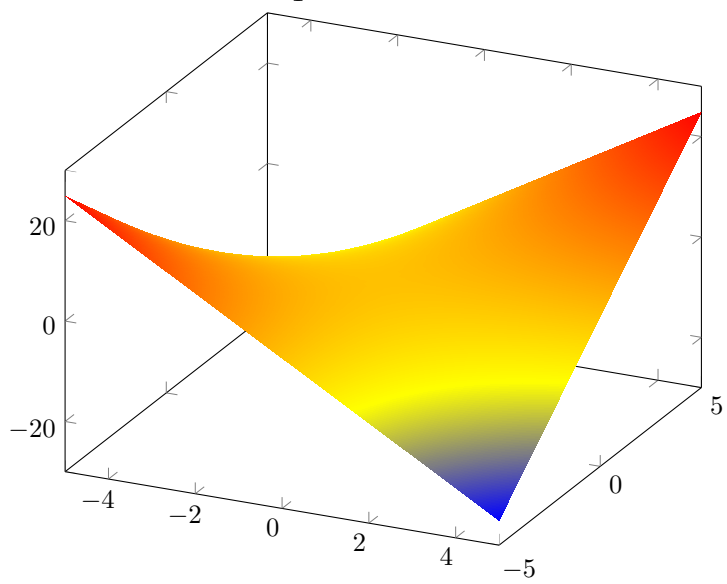
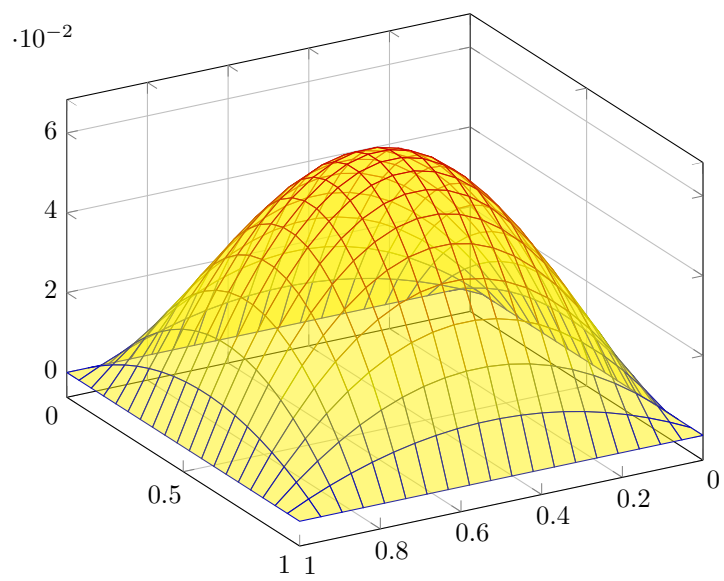
A Scatter Plot Example

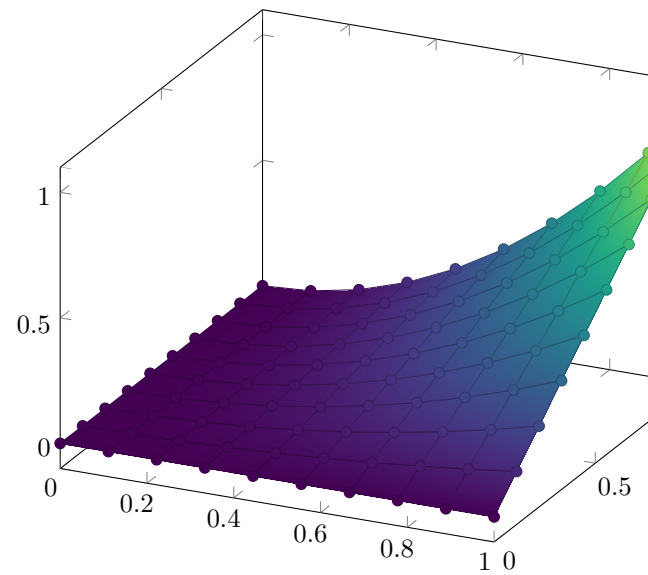
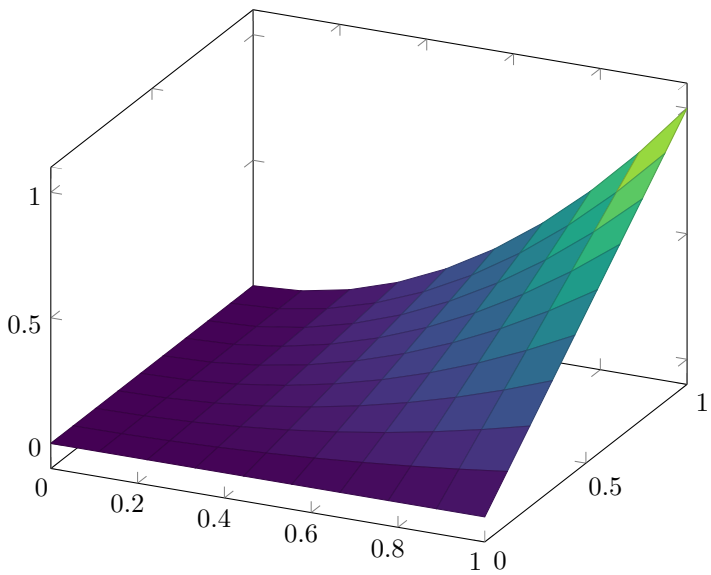
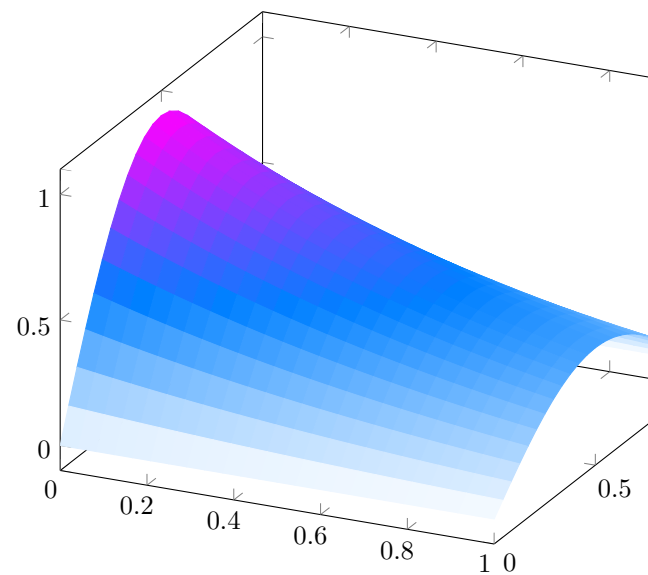
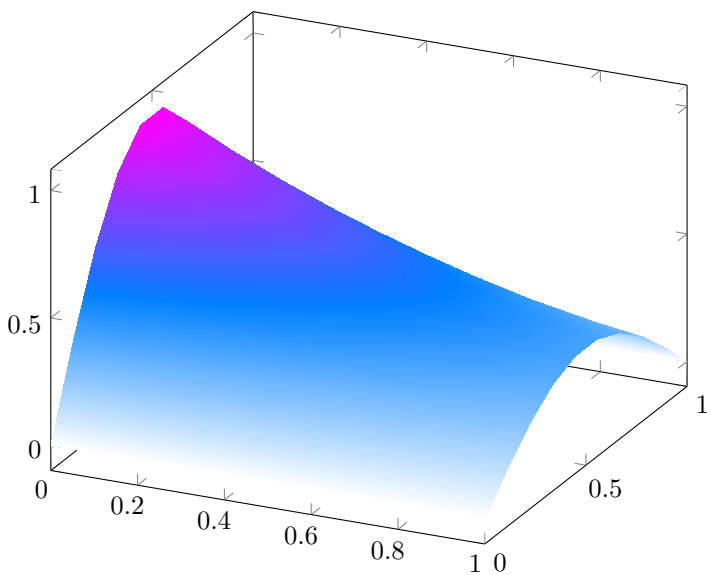
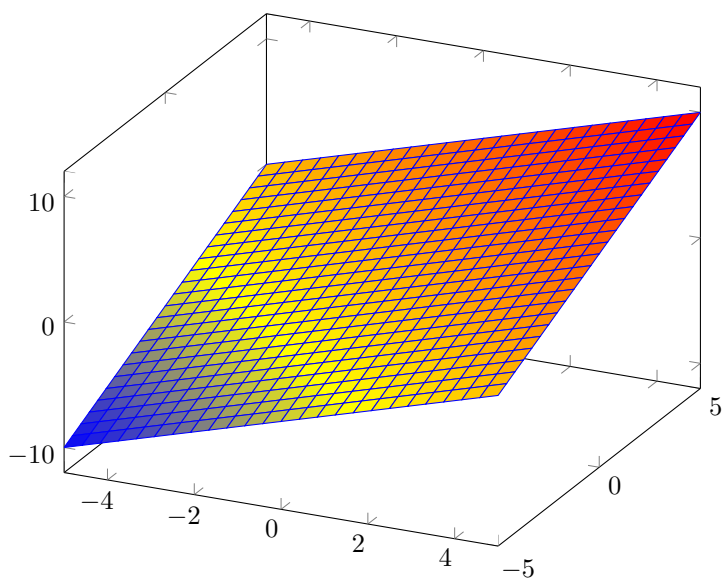


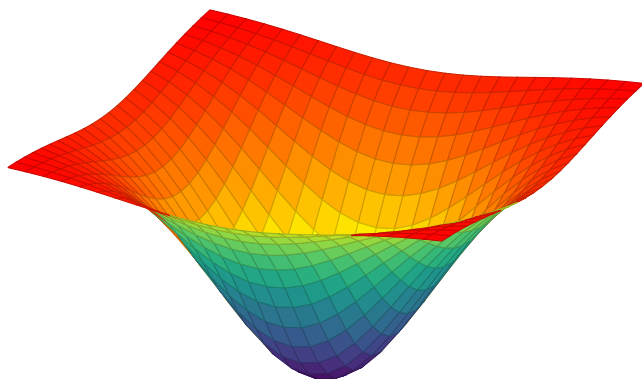
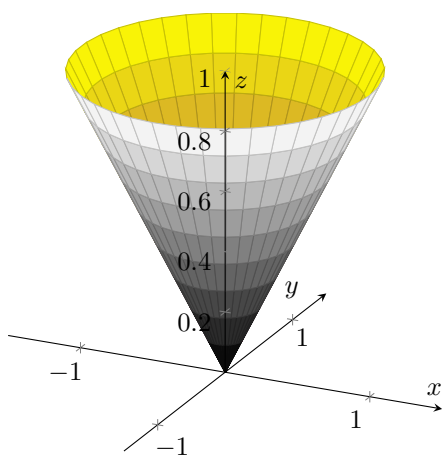


### 1.17 3d scatter plots

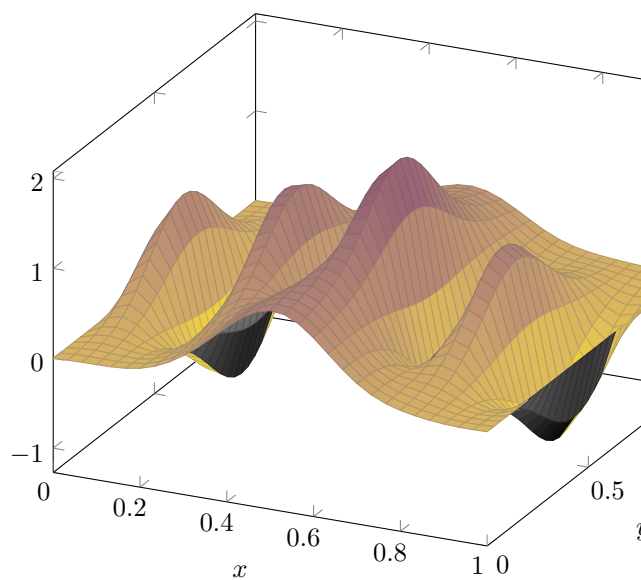
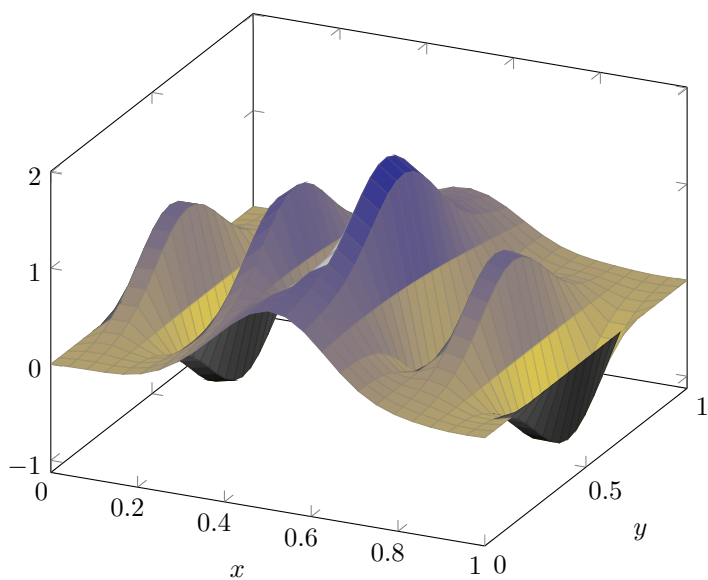




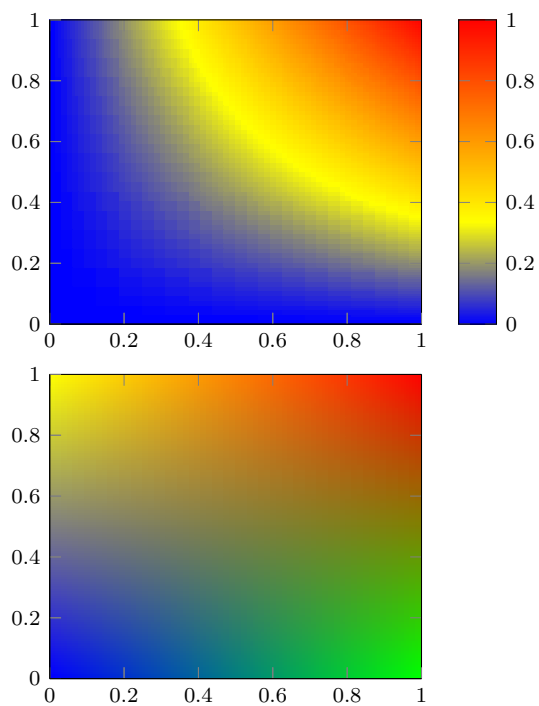




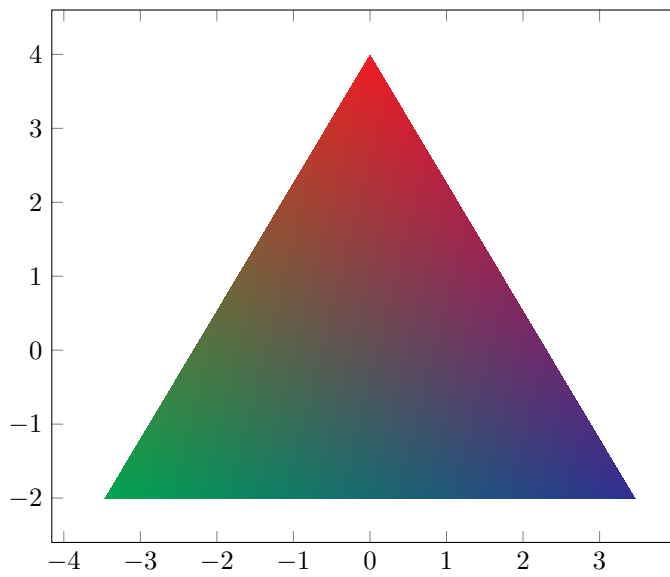
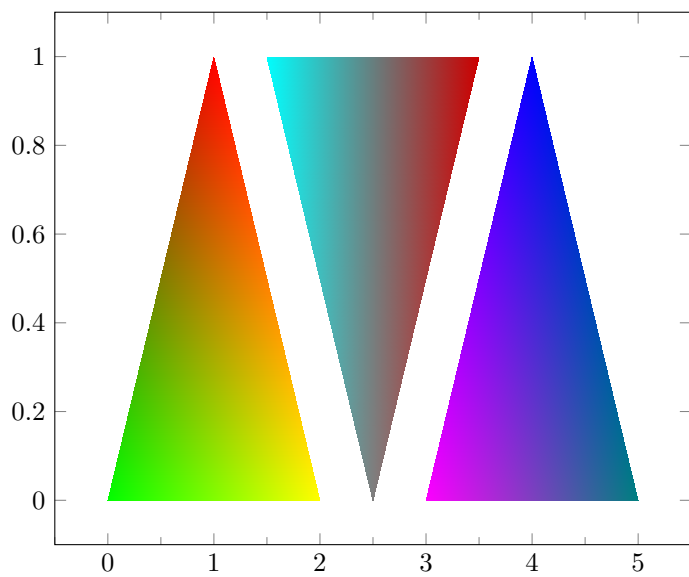
Example needing fine-tuning



Example needing fine-tuning

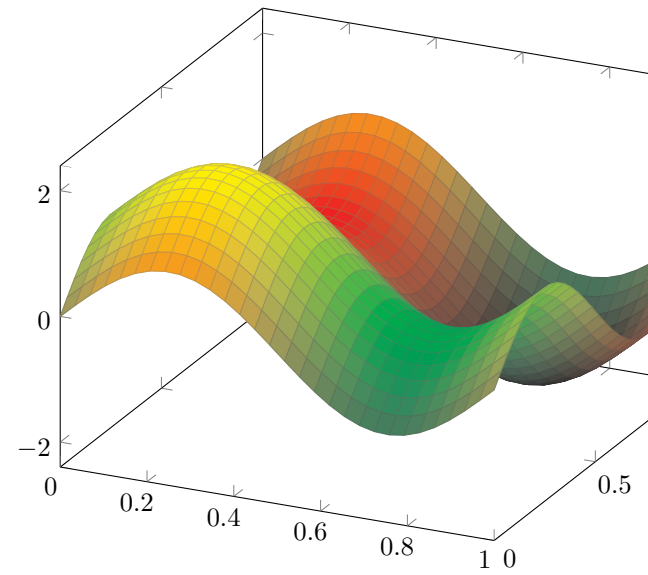
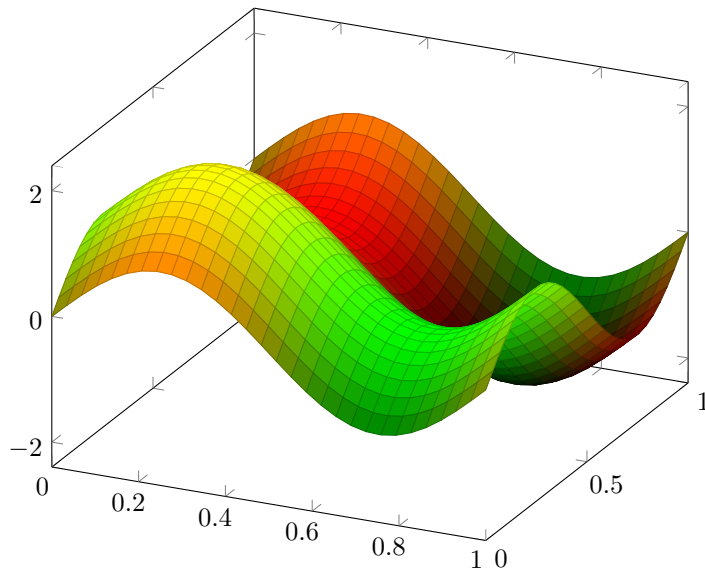
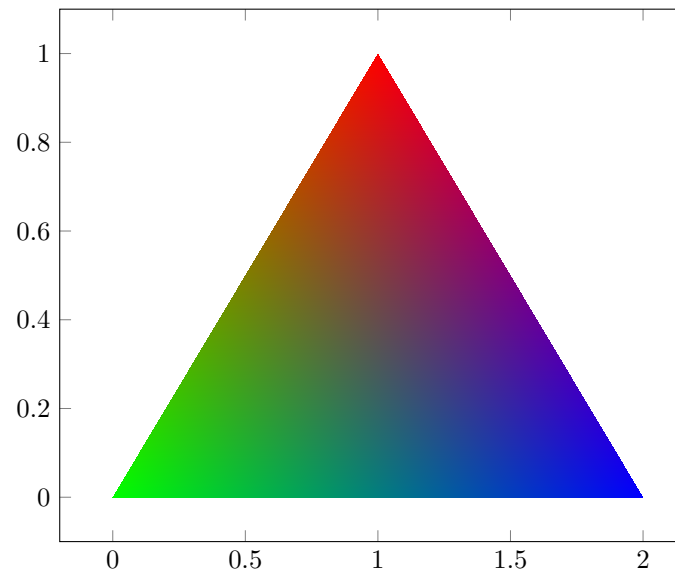
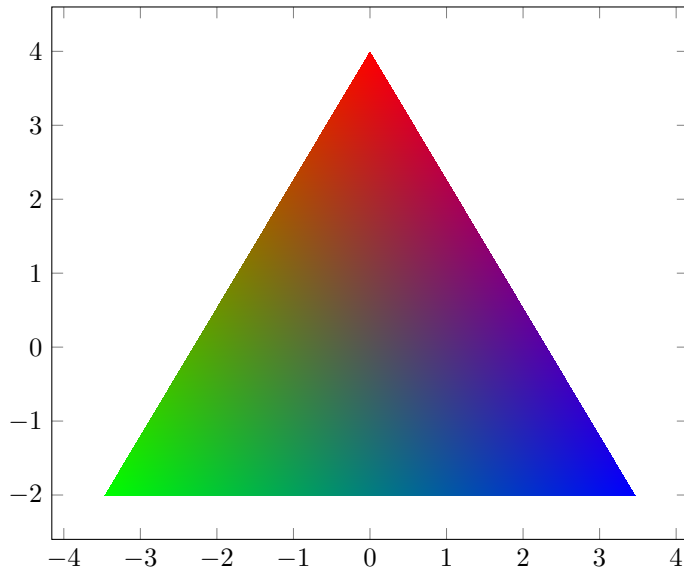


CMYK shading

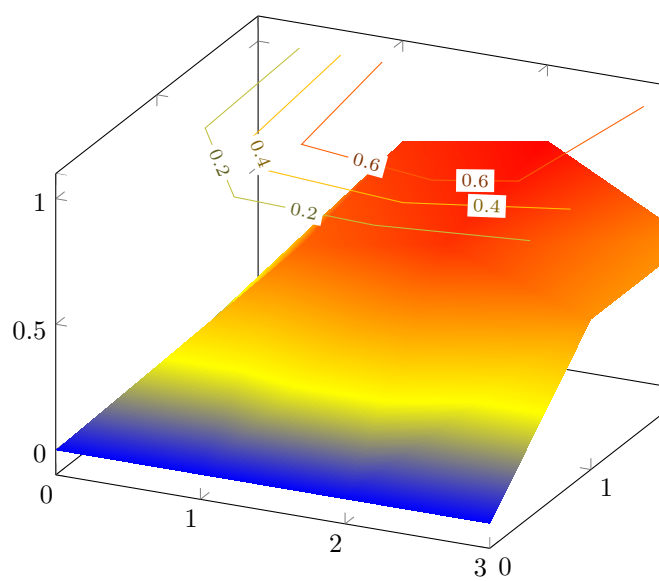
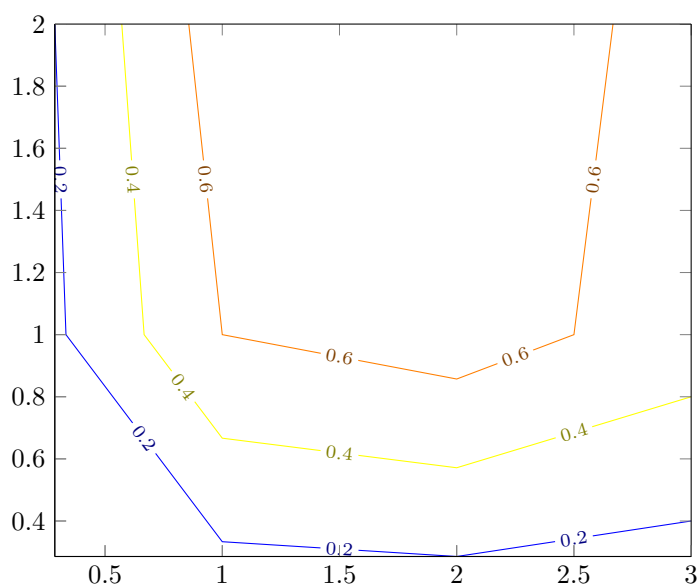
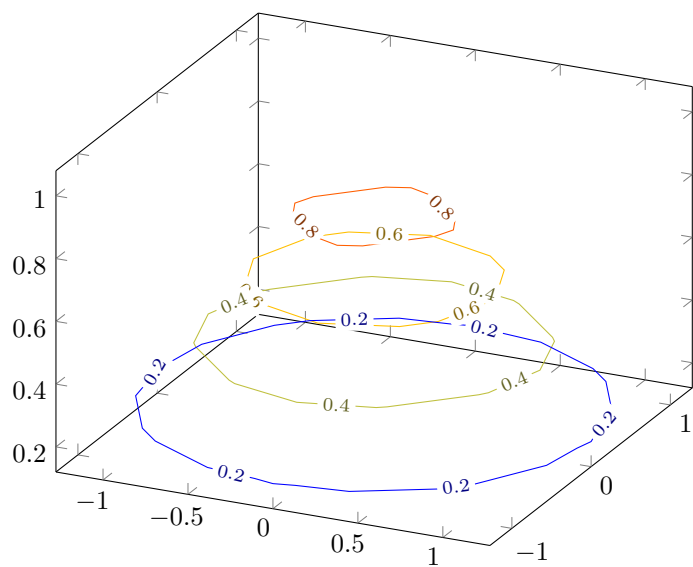


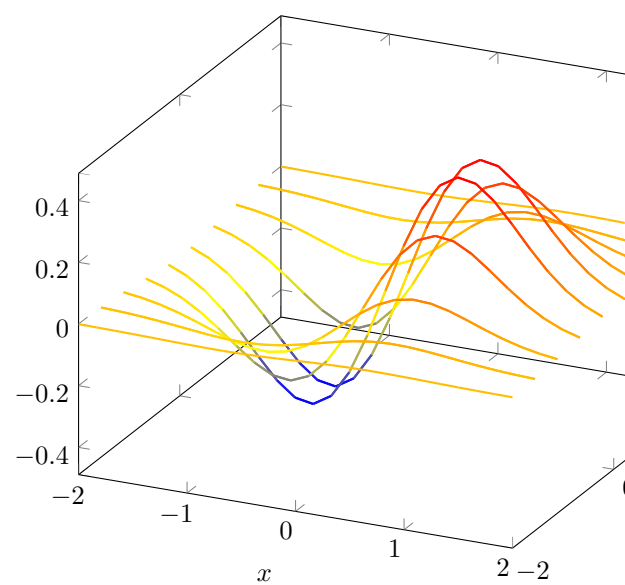
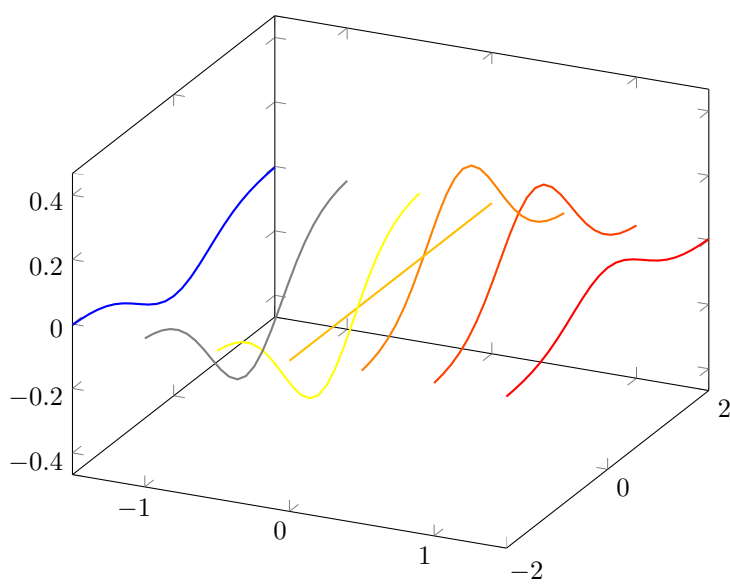
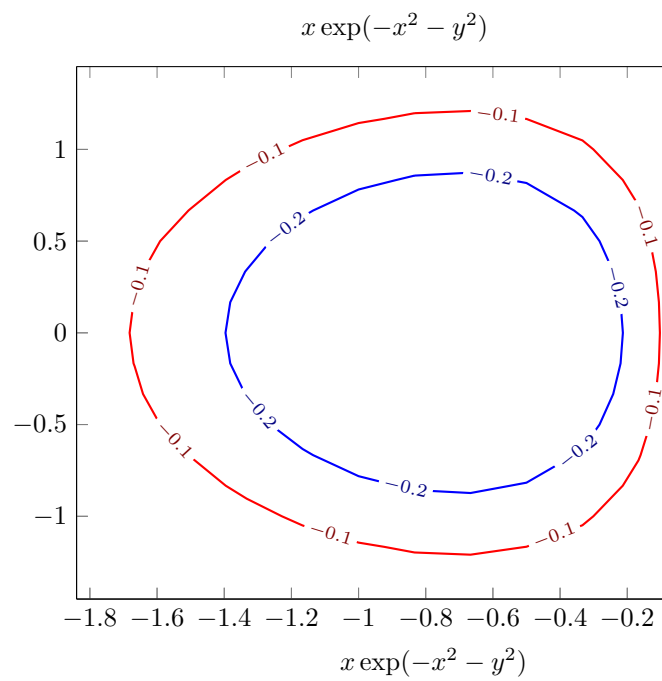
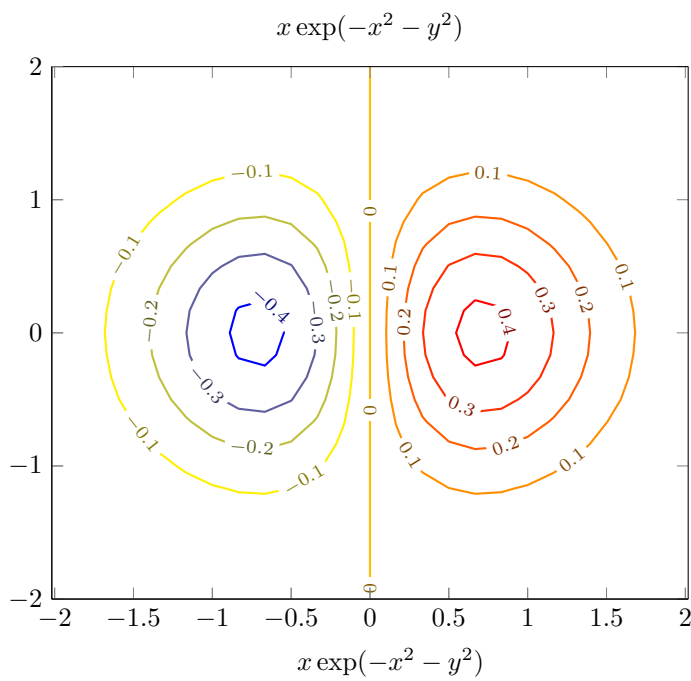


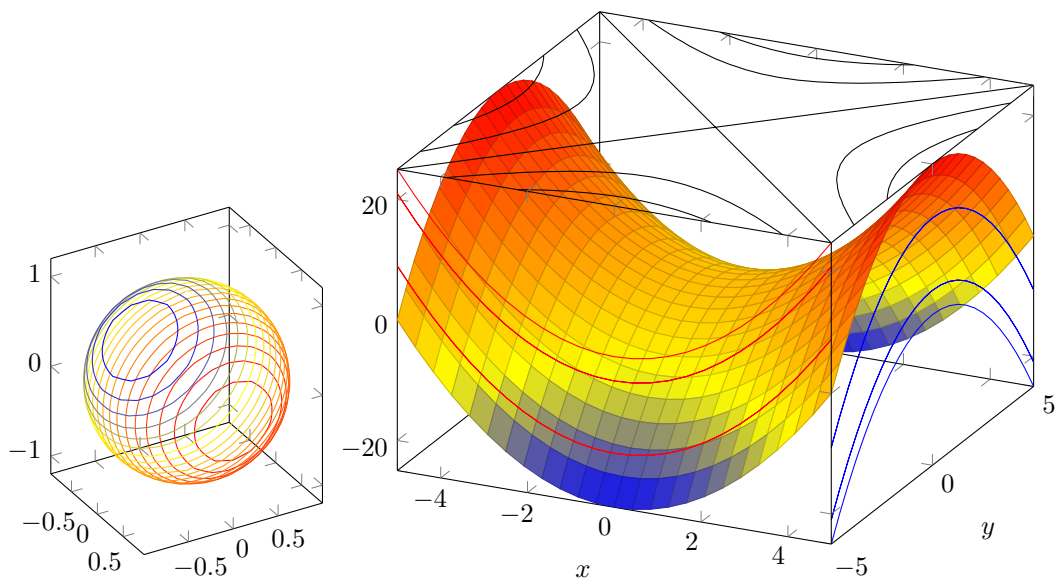
RGB shading



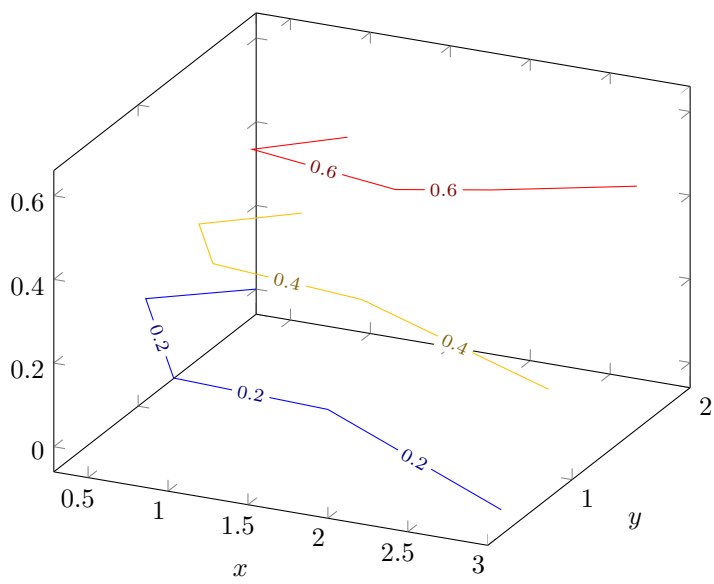
## 1.18 Contour Plots



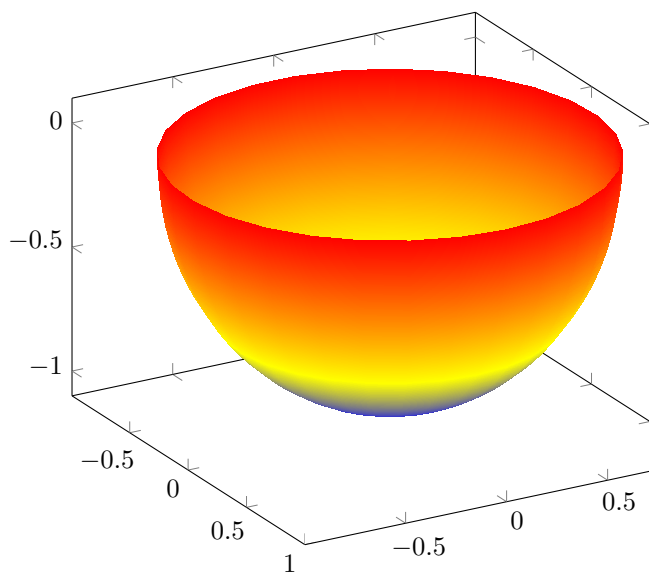
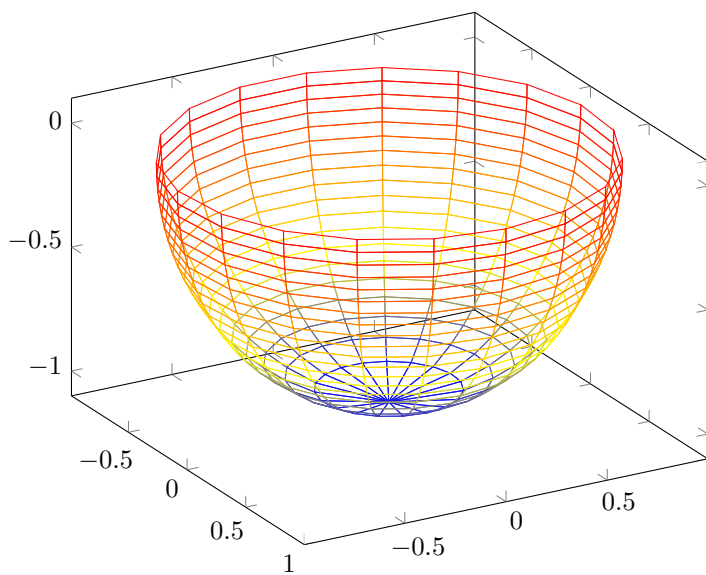
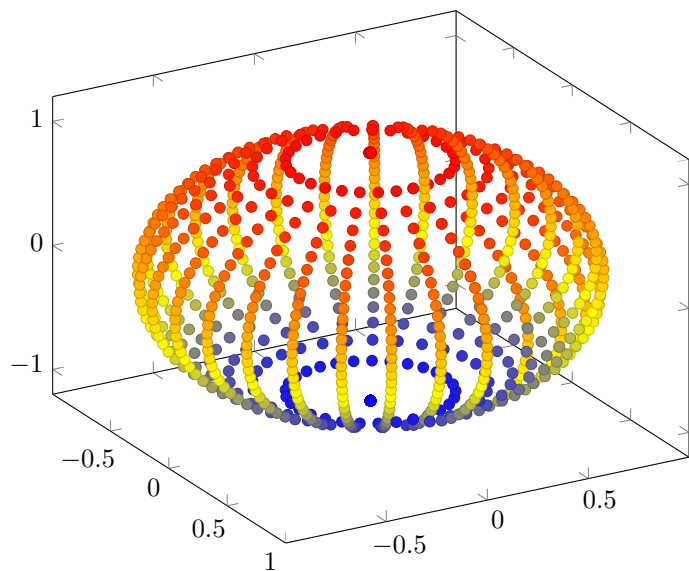
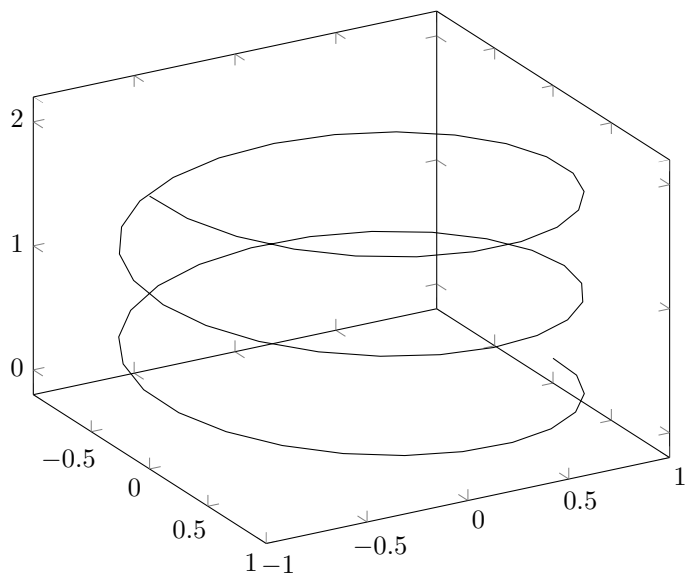


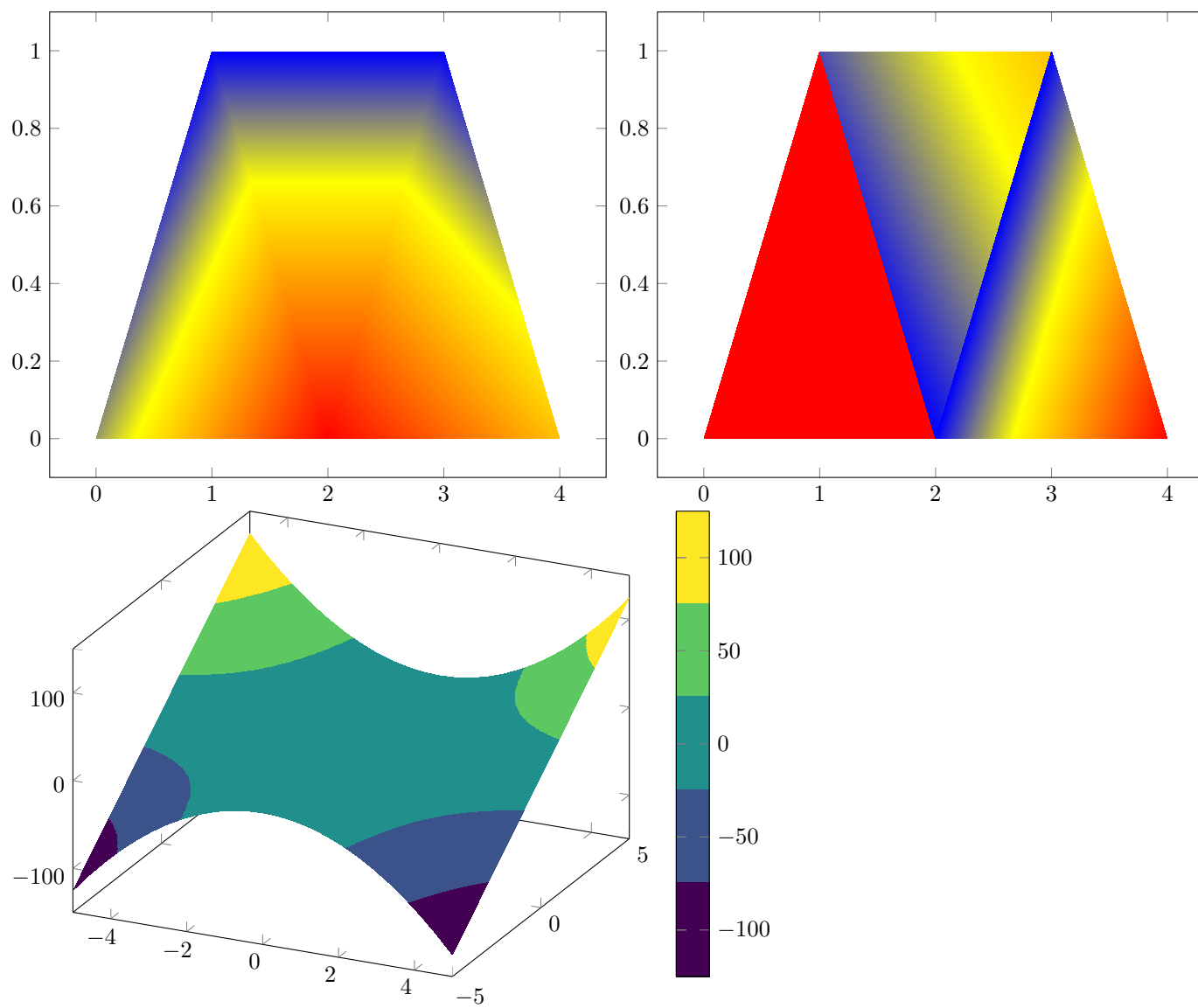


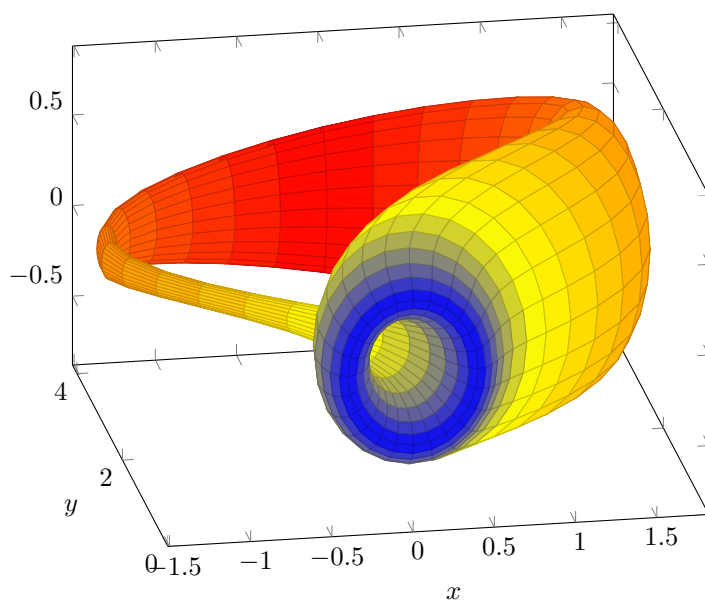
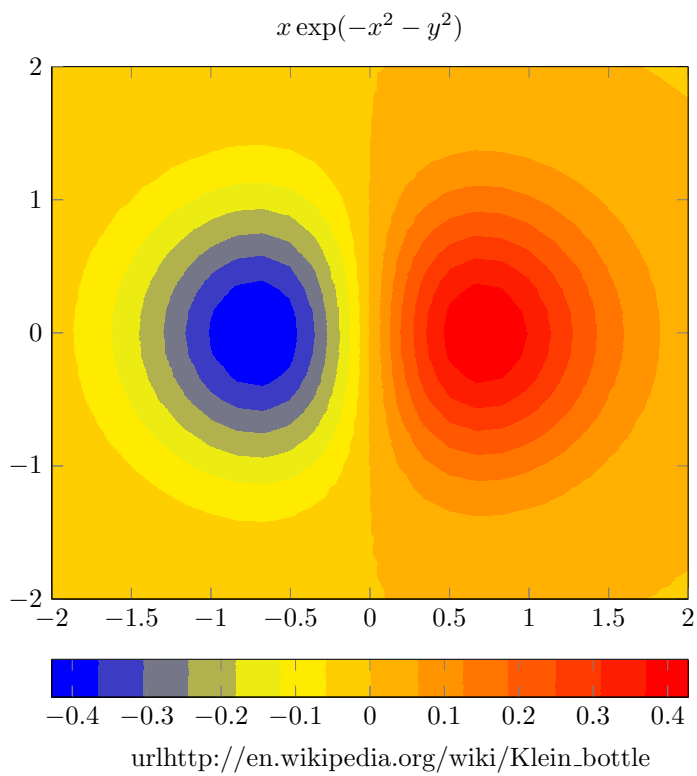
Separating  $z$  from Color Value

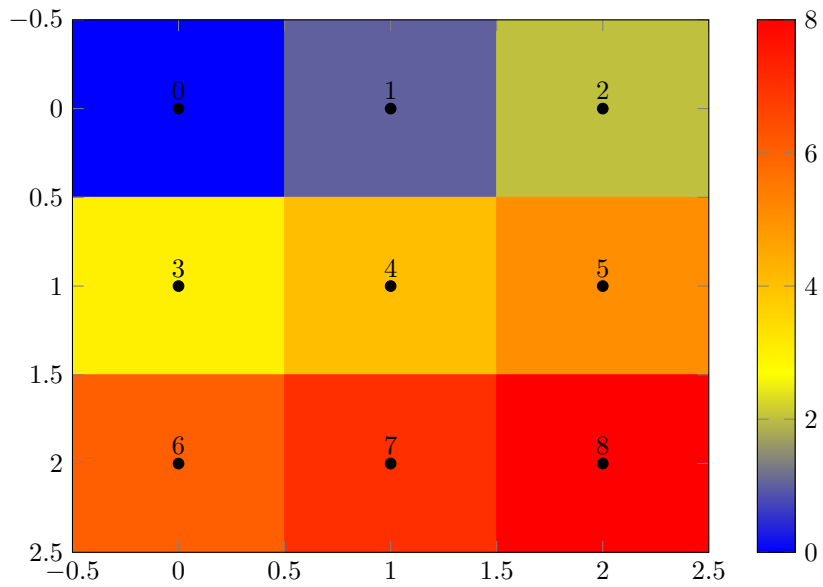
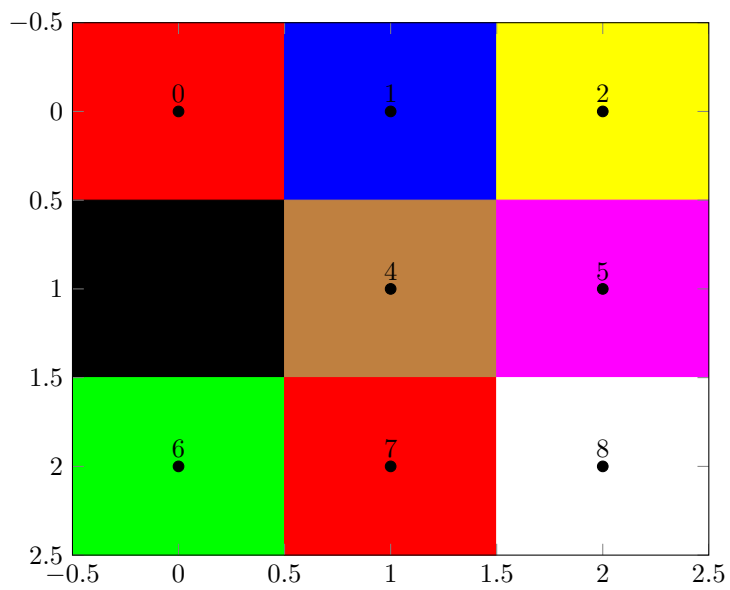


## 1.19 Parameterized Plots

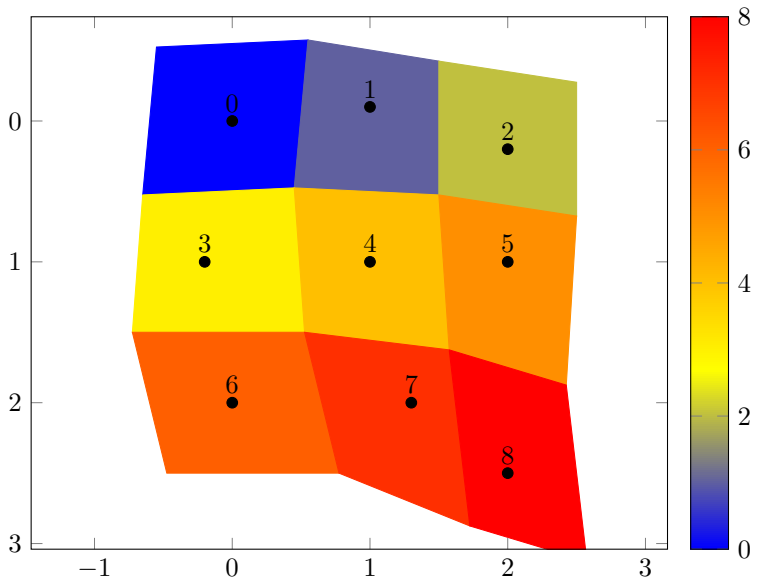
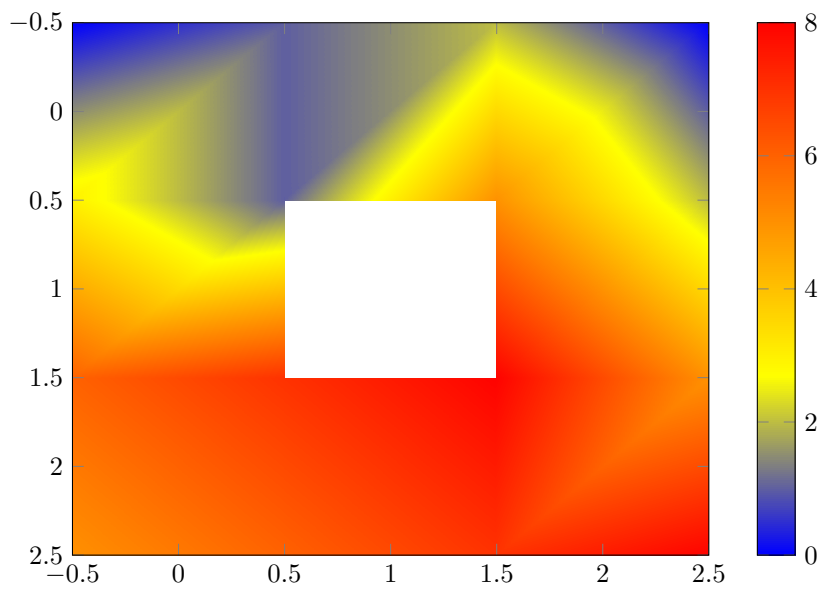




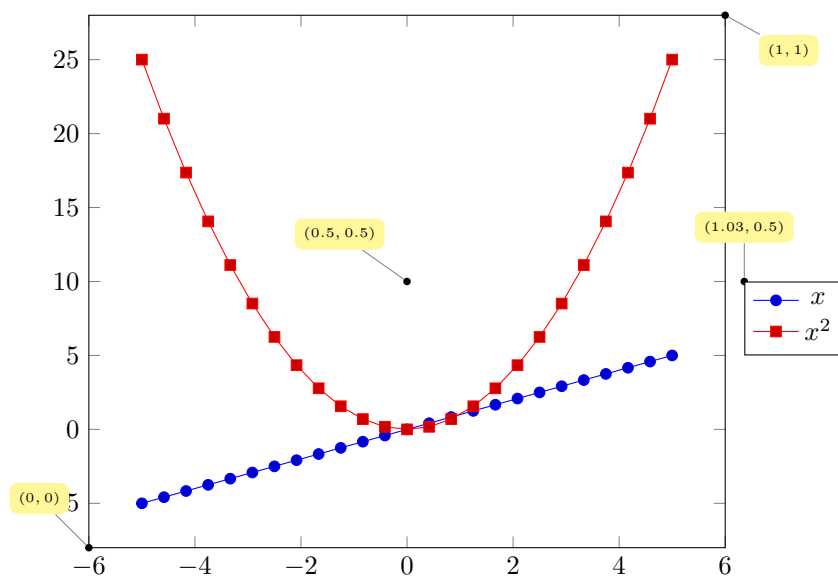
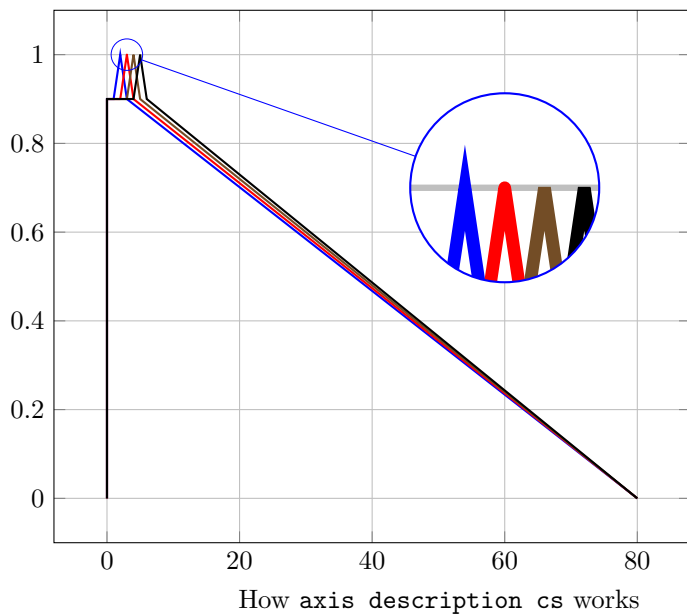


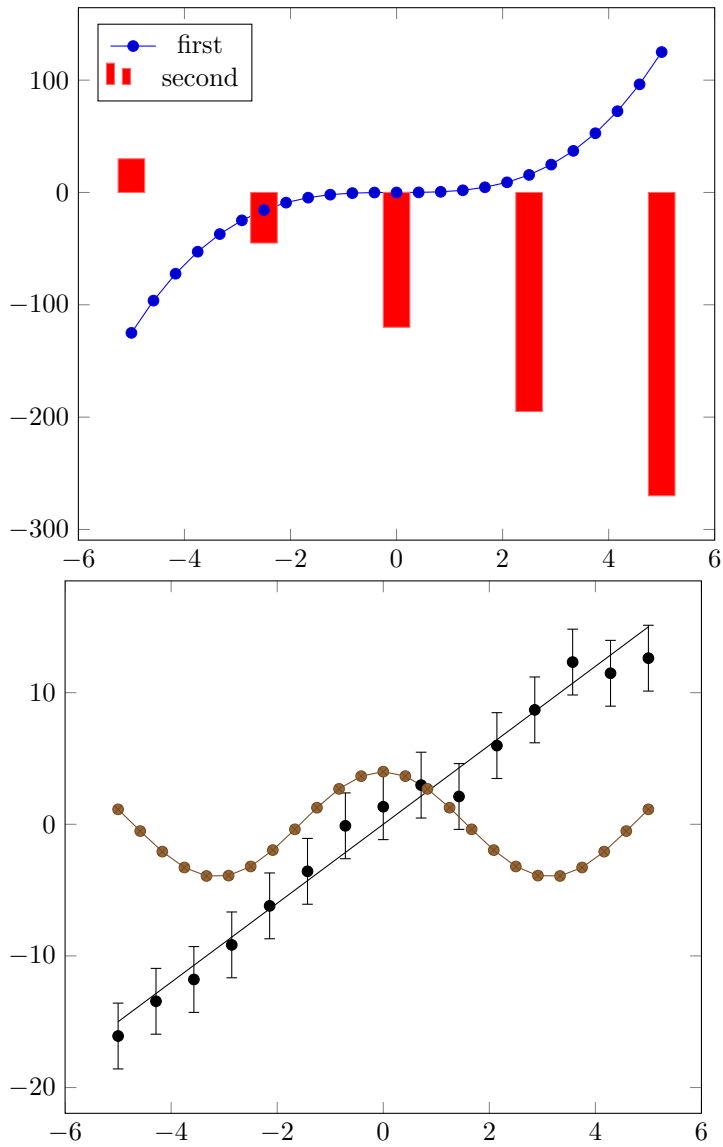




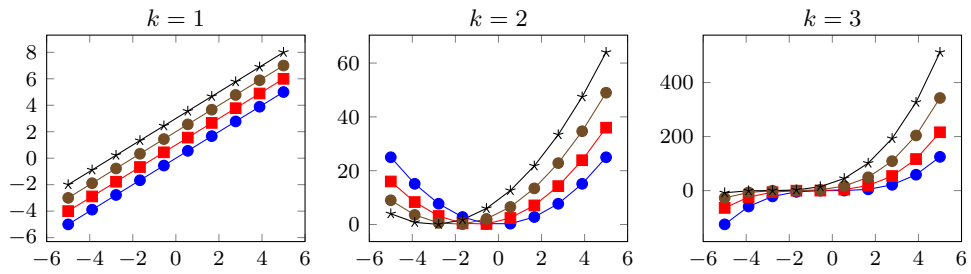


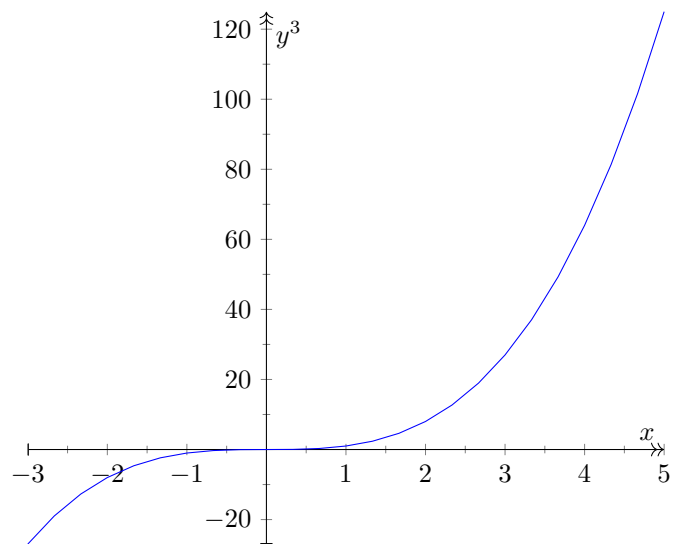
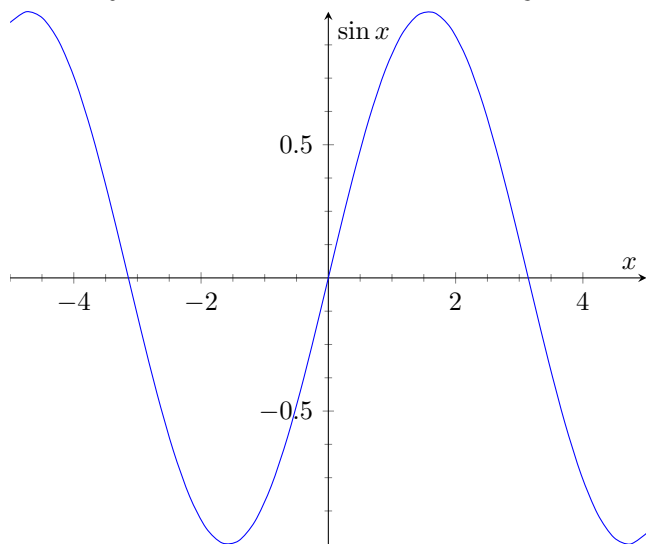
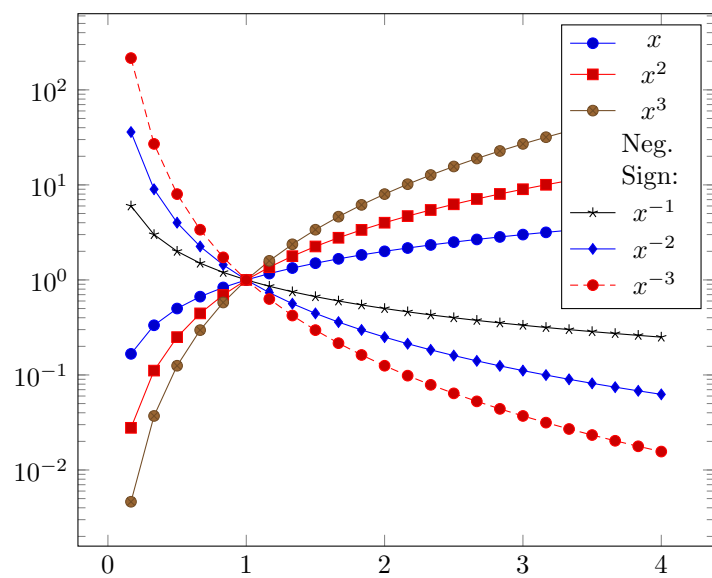
## 1.20 Specialty graphs and settings

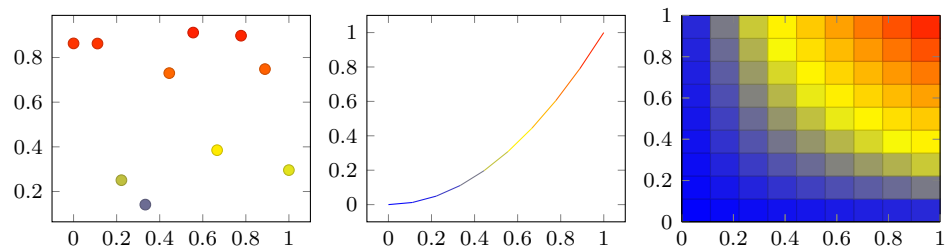
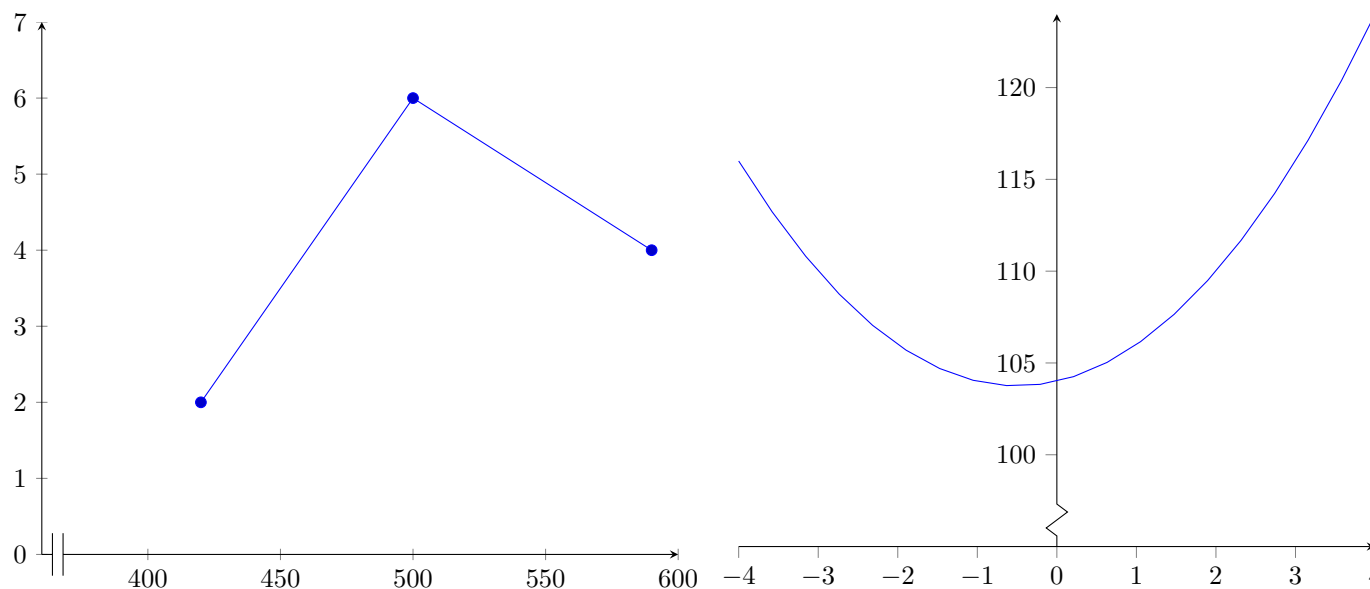
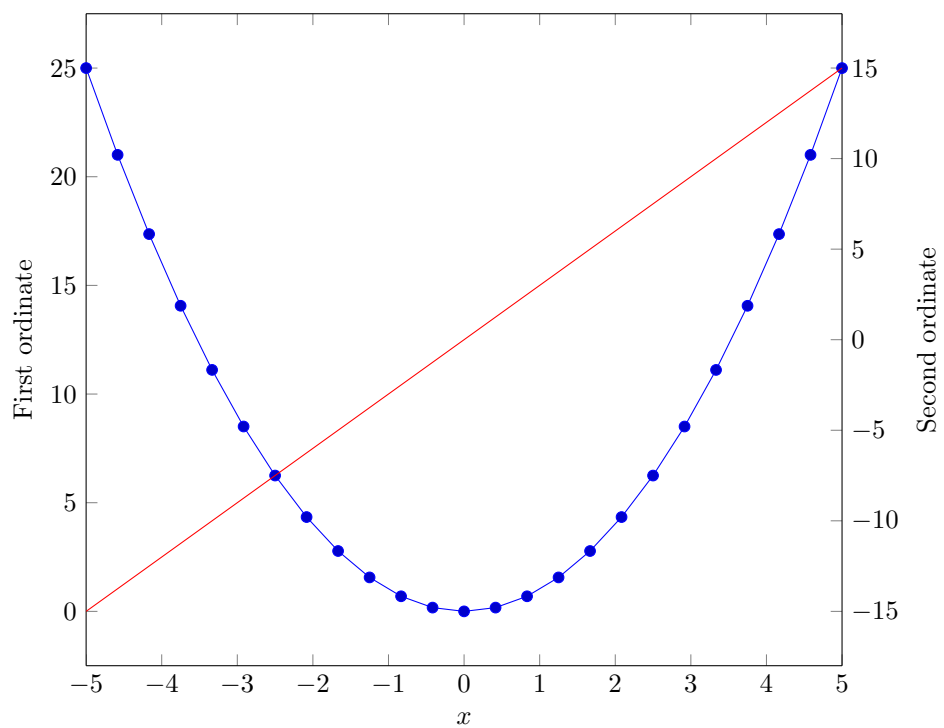


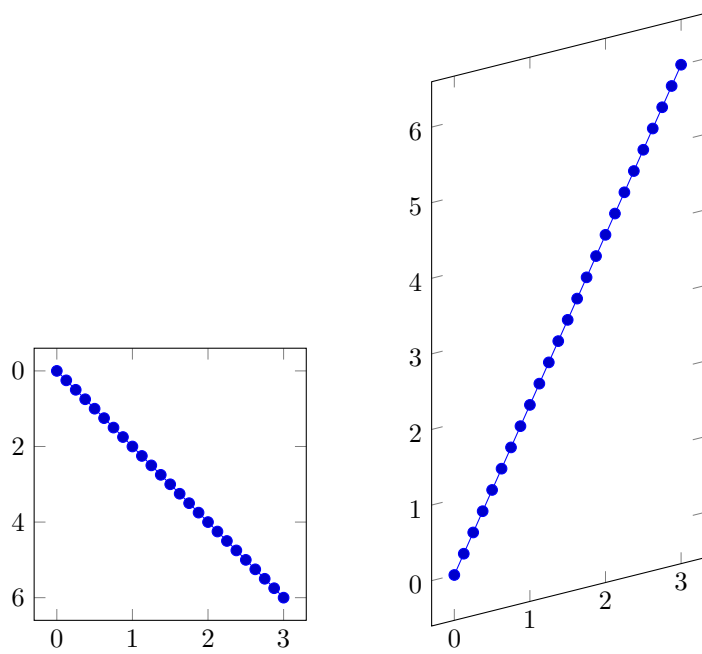


The picture shows the estimations which are subjected to noise. It appears the model fits the data appropriately. Finally, is only here to get three examples.



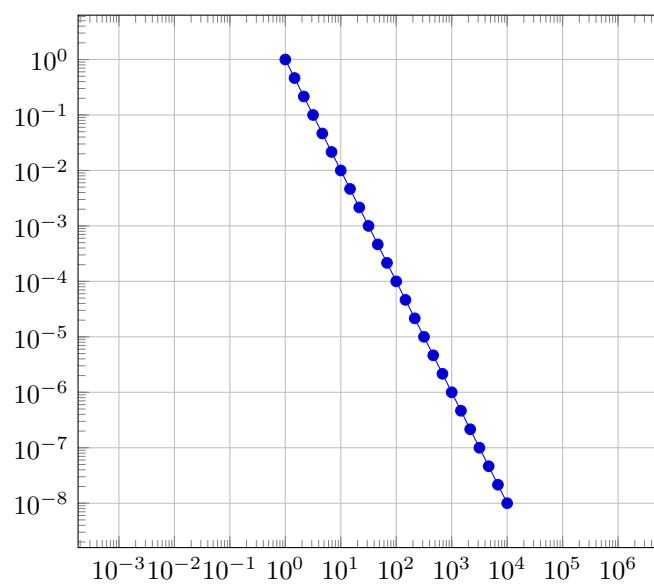
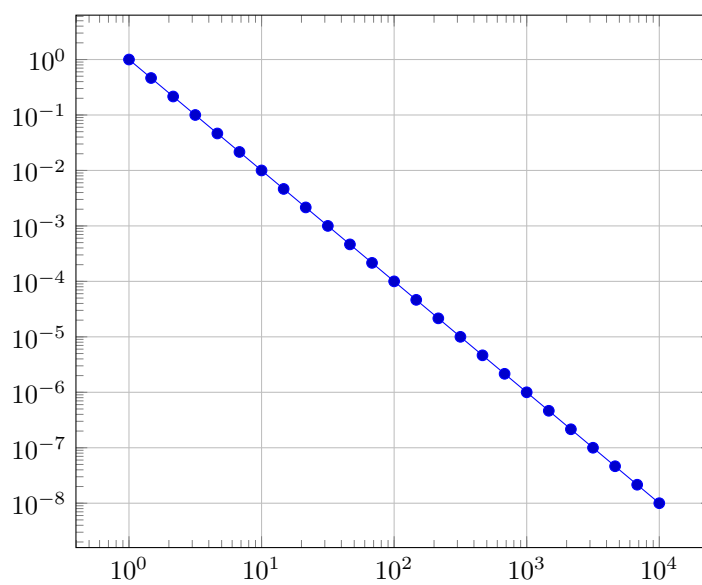




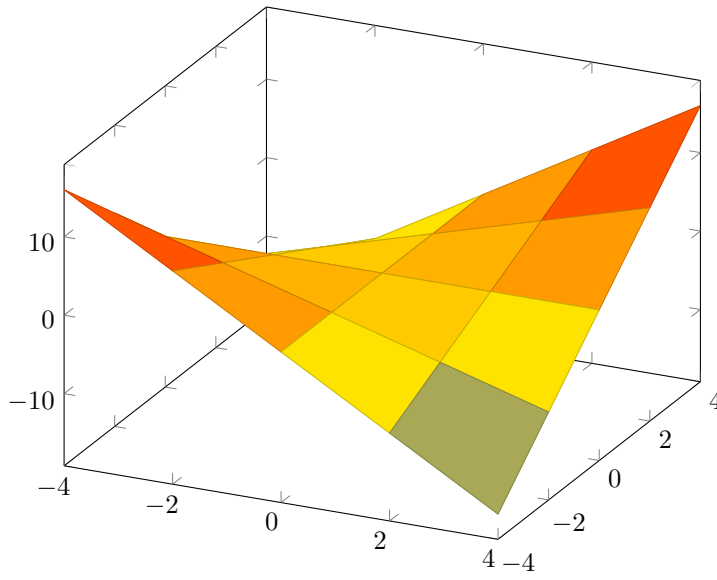


Unequal Axis

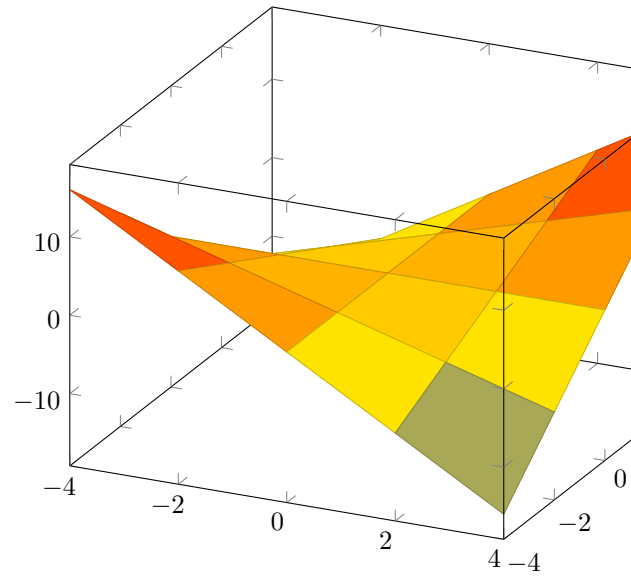
Equal Axis



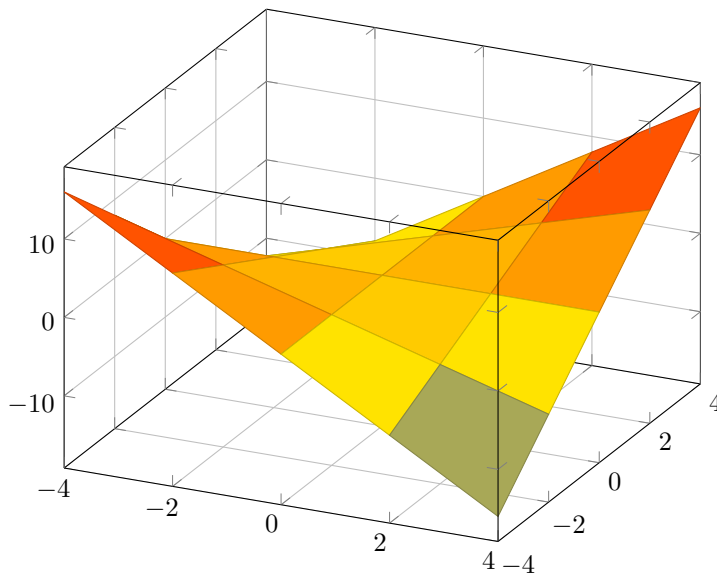
3d box=background



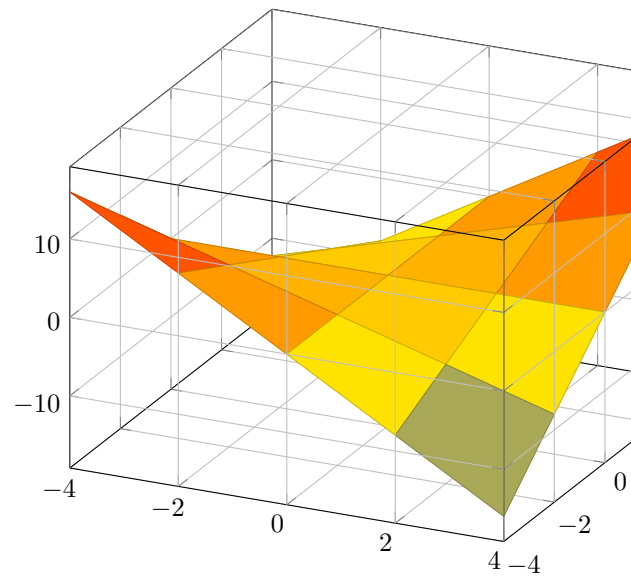
3d box=background

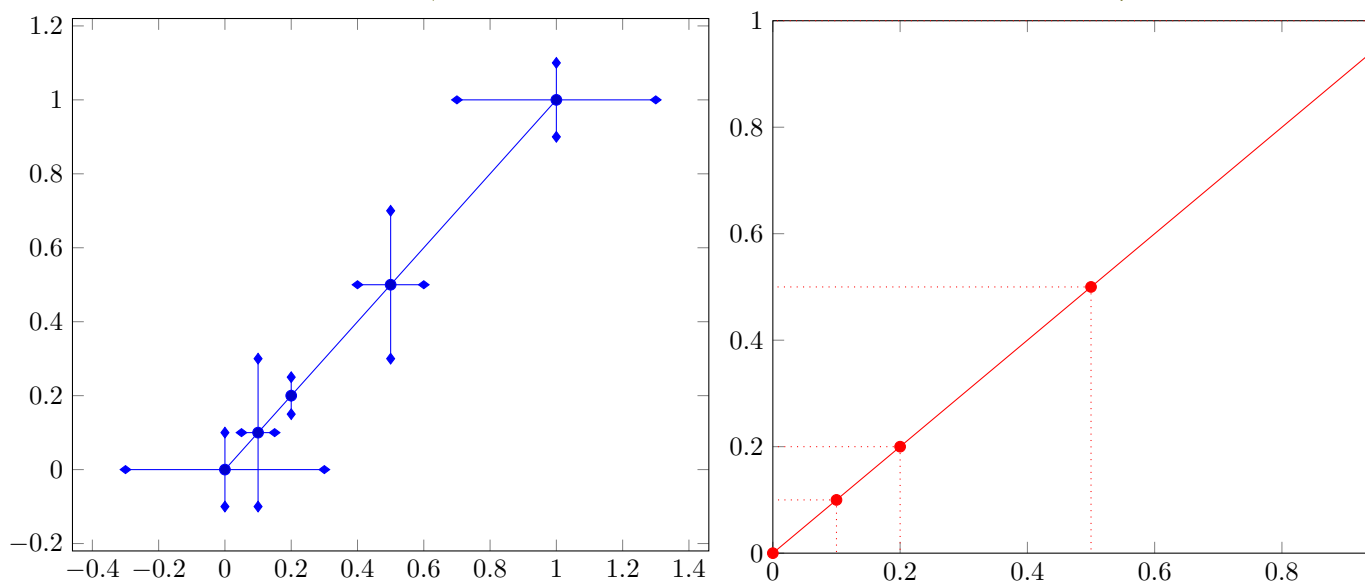
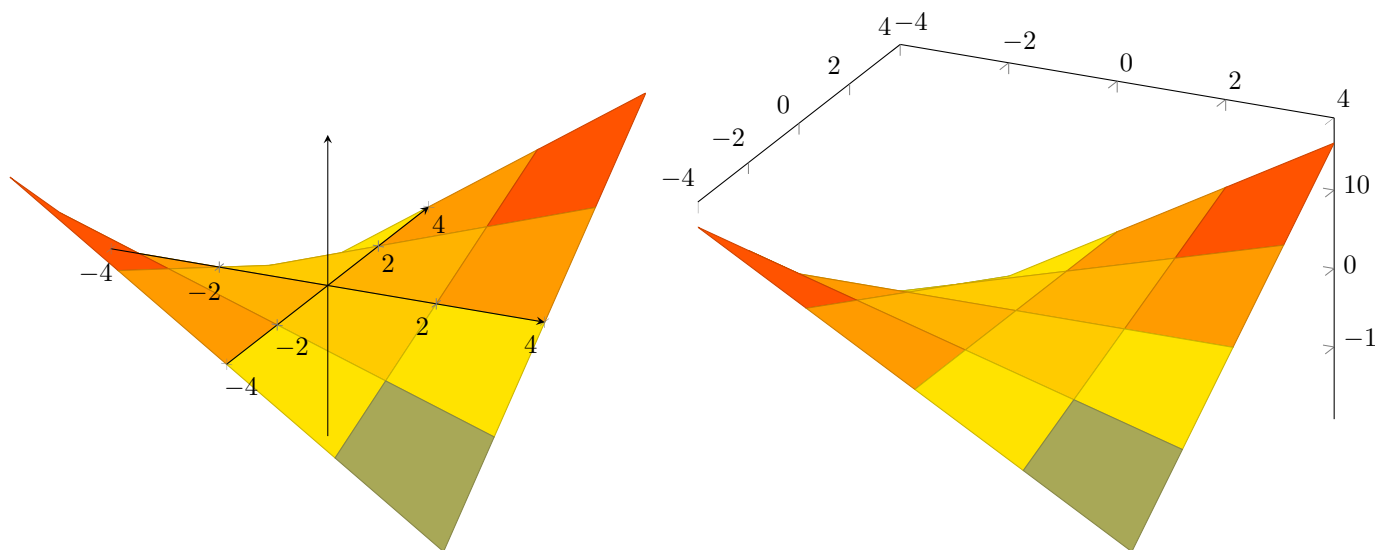


3d box=background

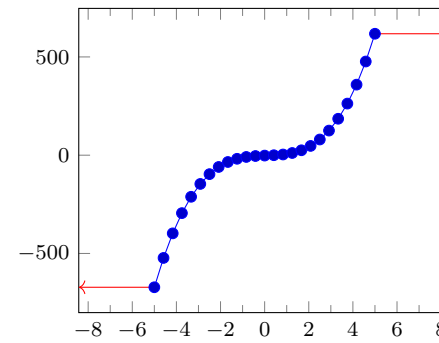
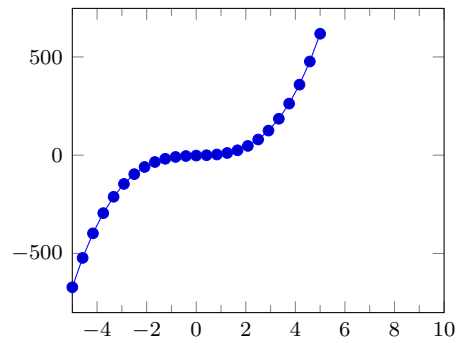
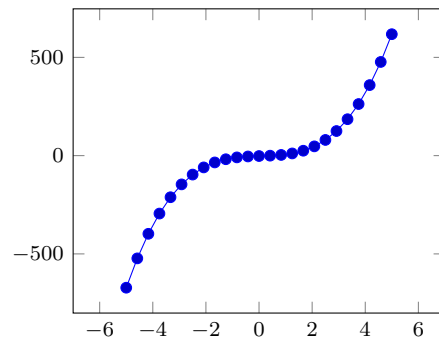
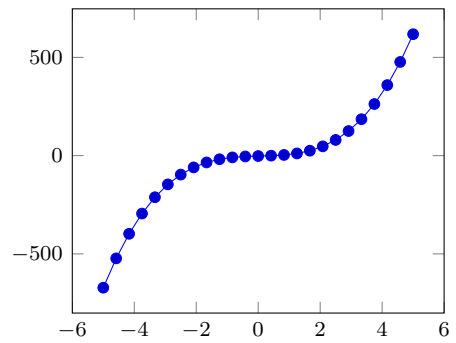
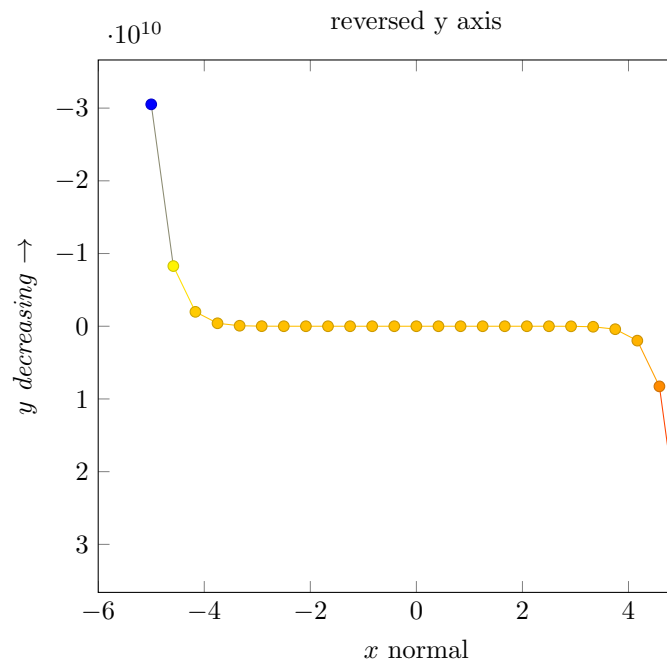
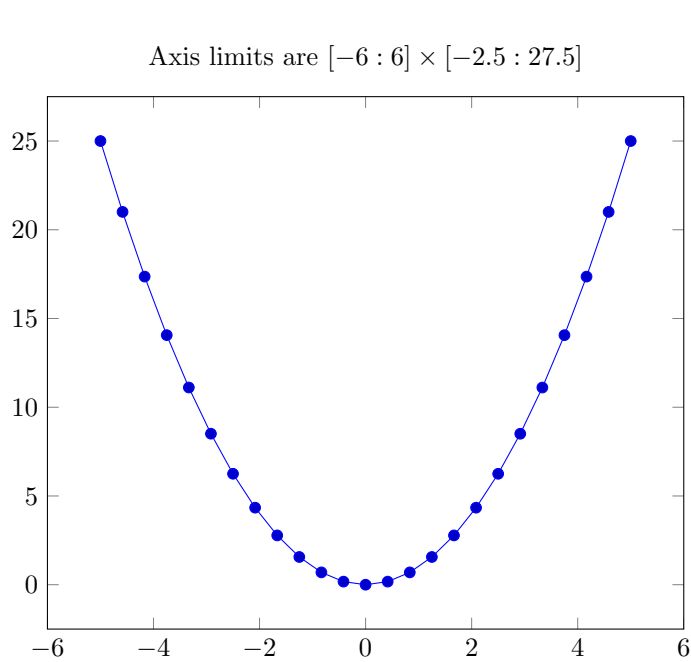


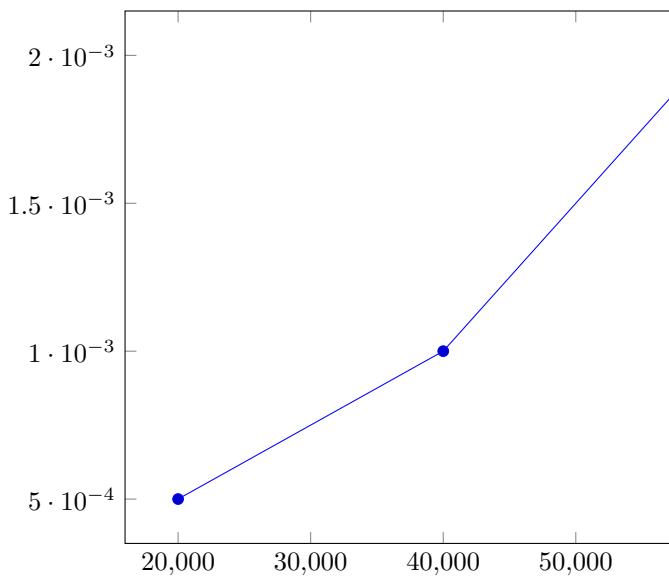
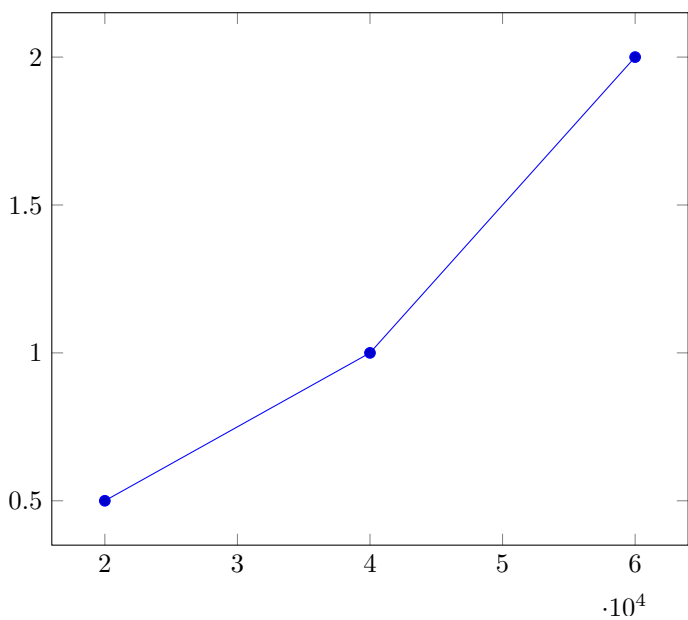
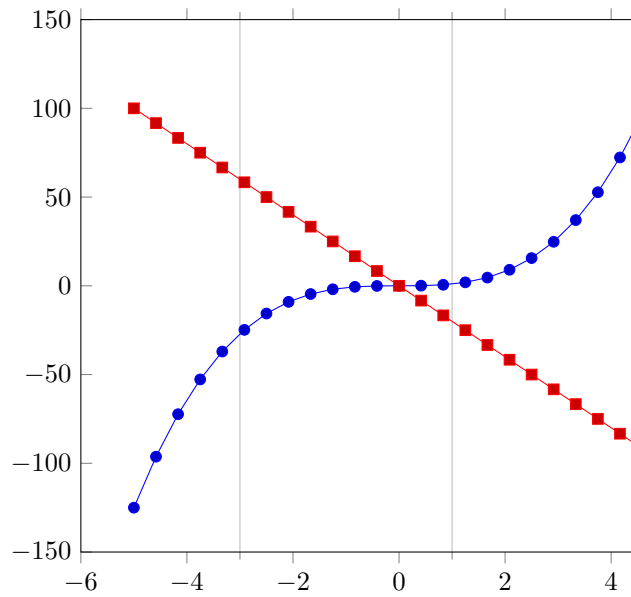
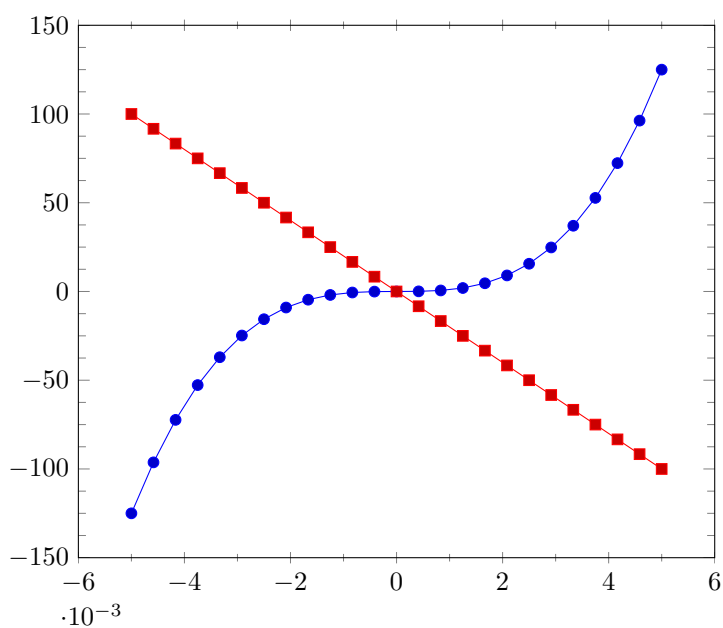
3d box=background

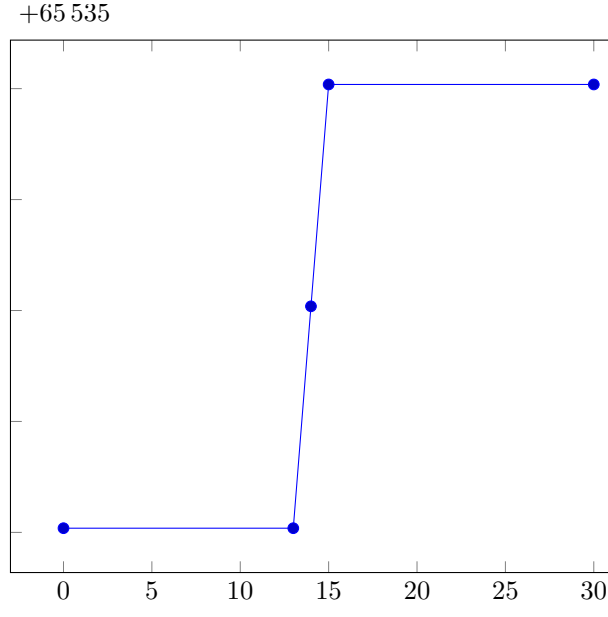
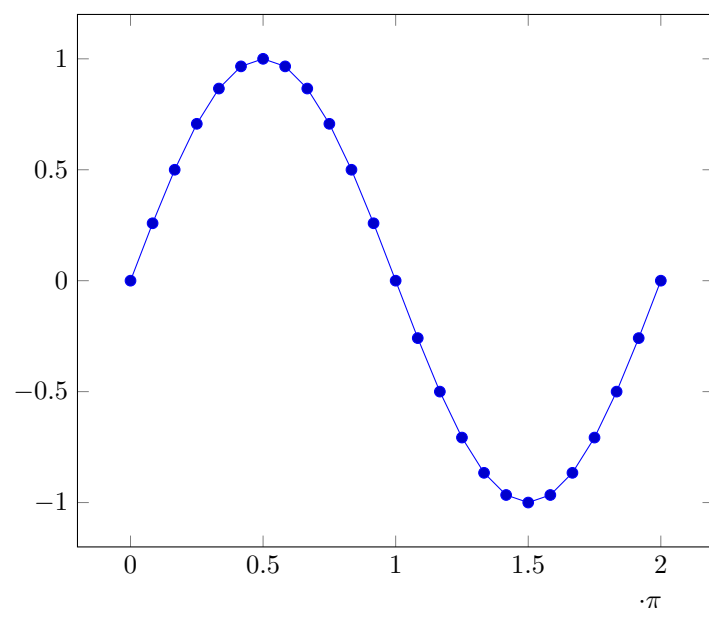
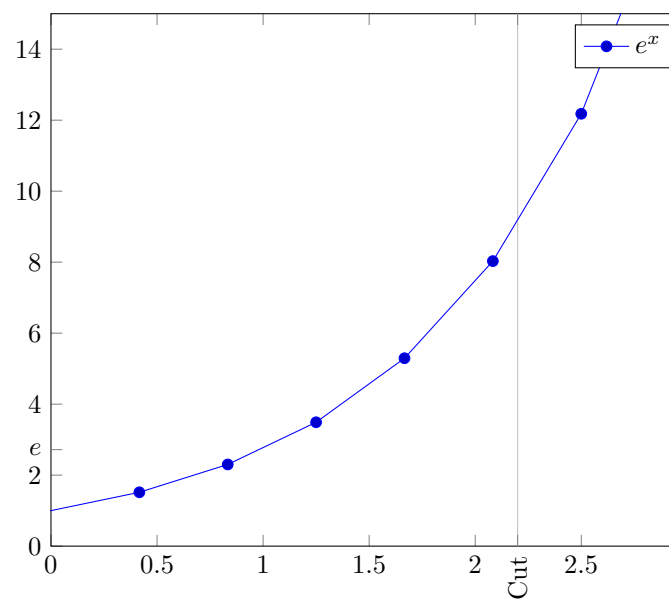
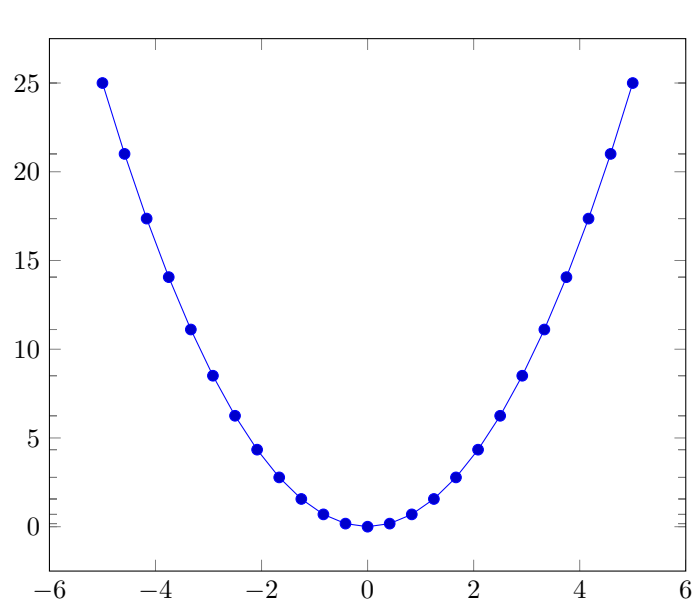


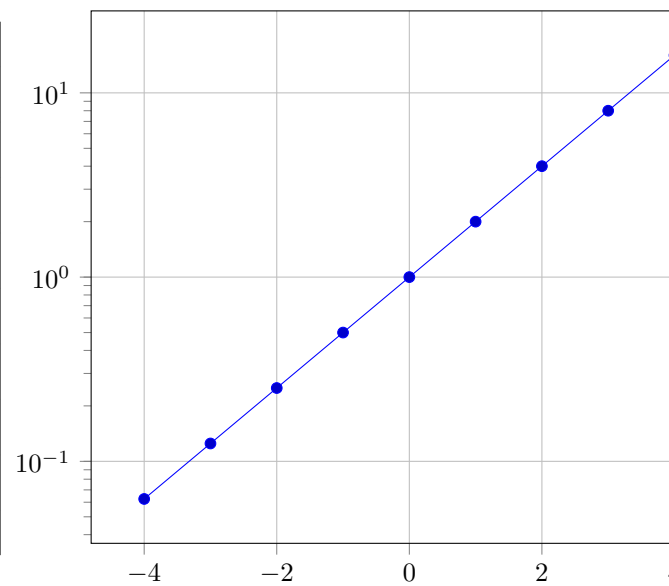
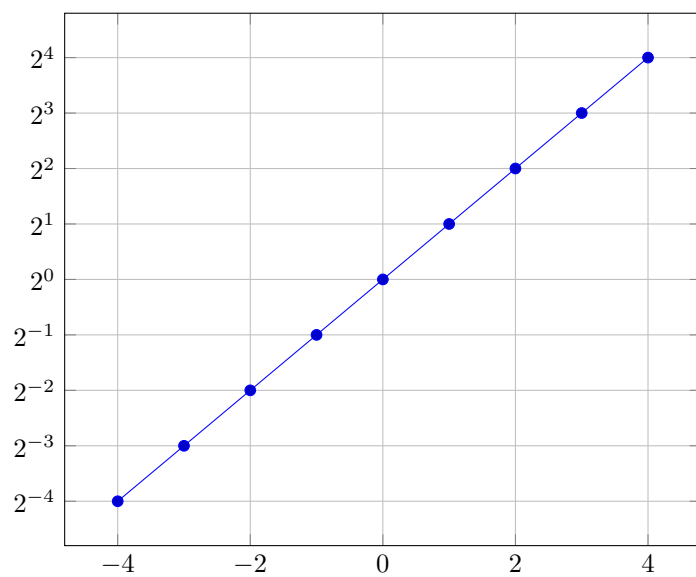
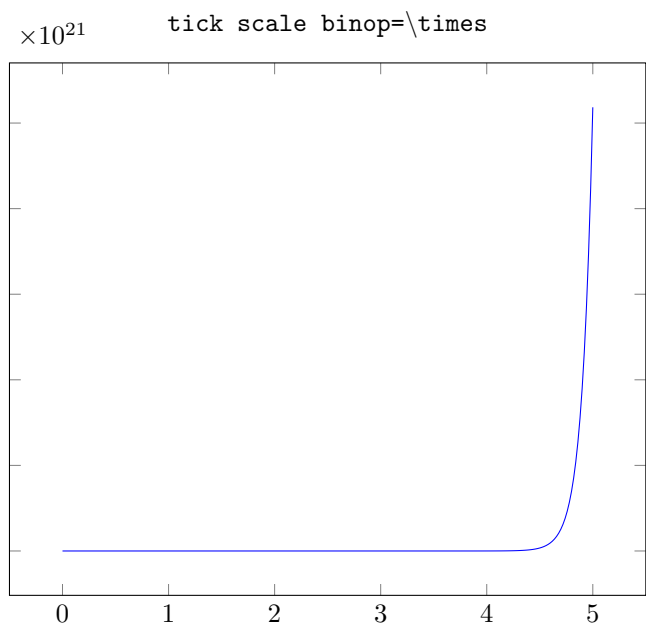
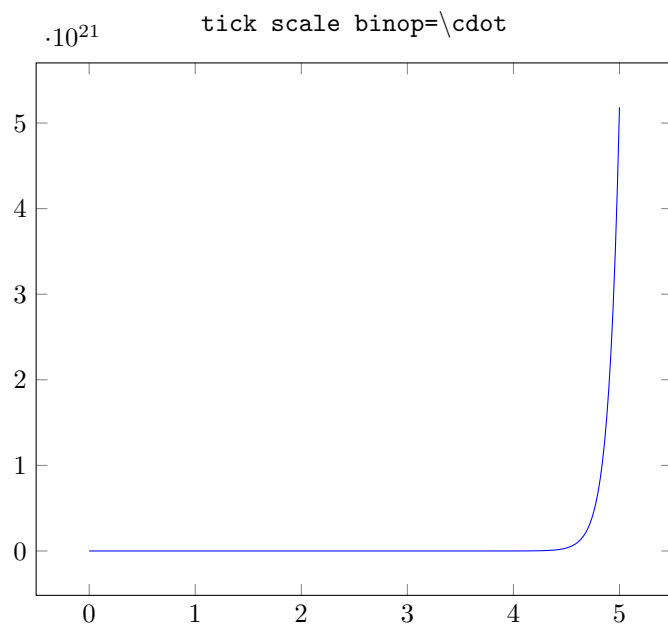


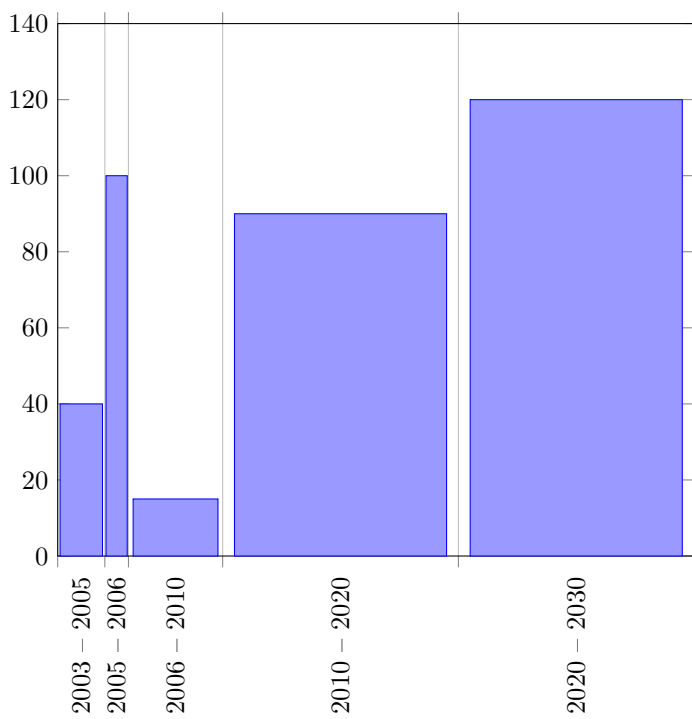
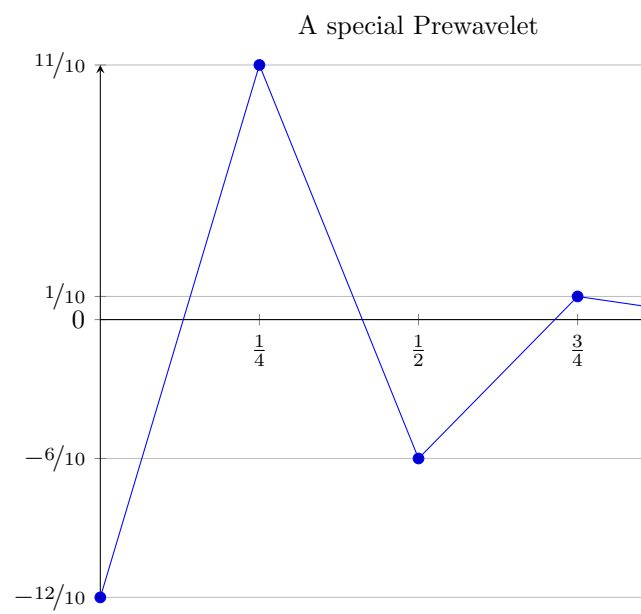
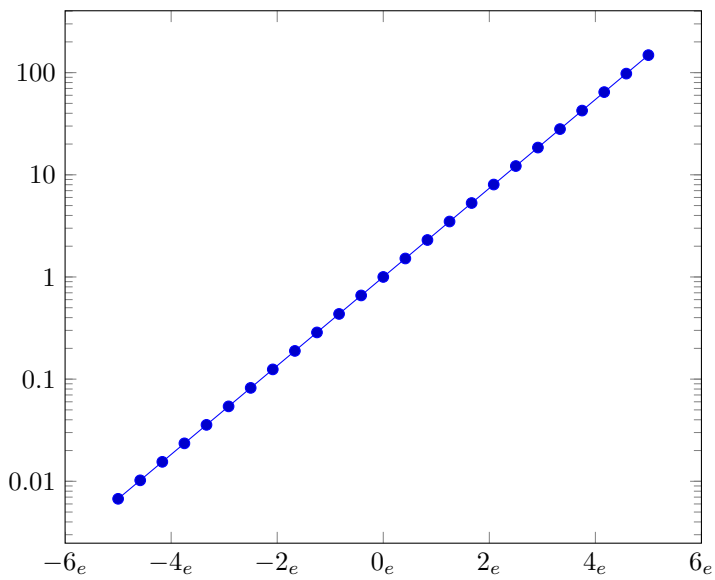


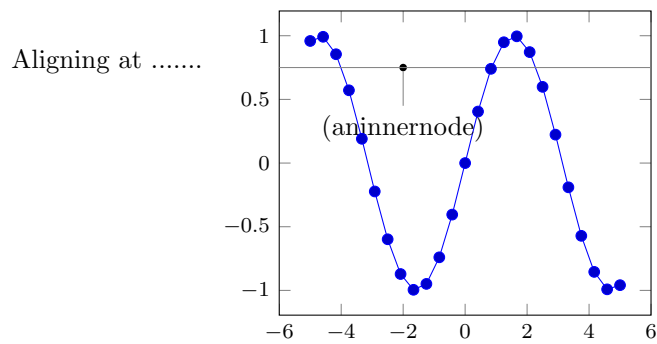
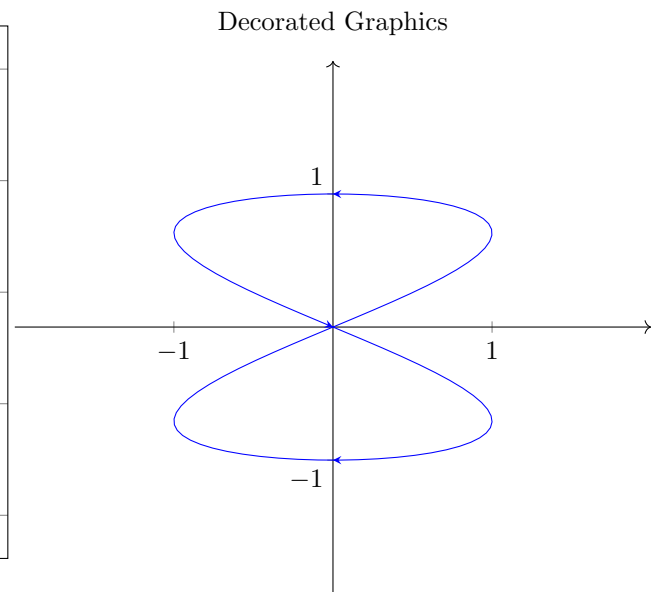
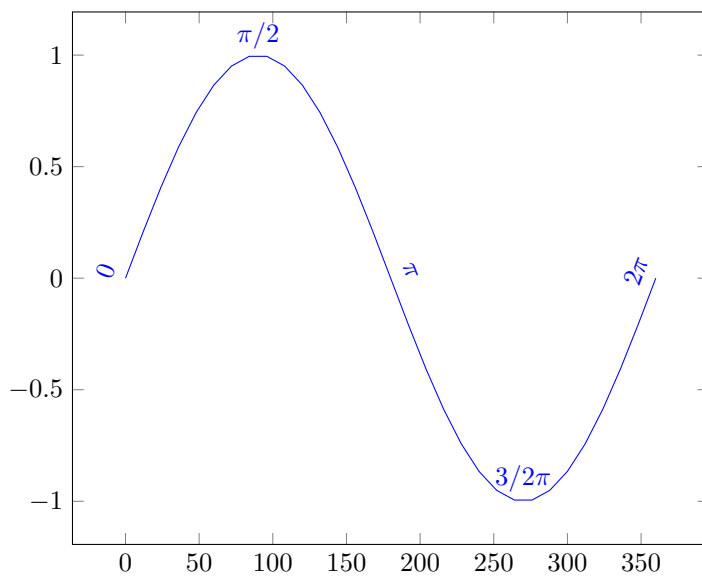
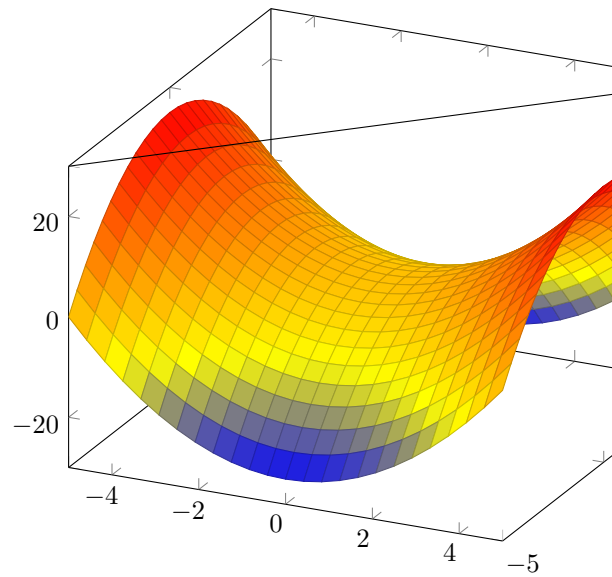
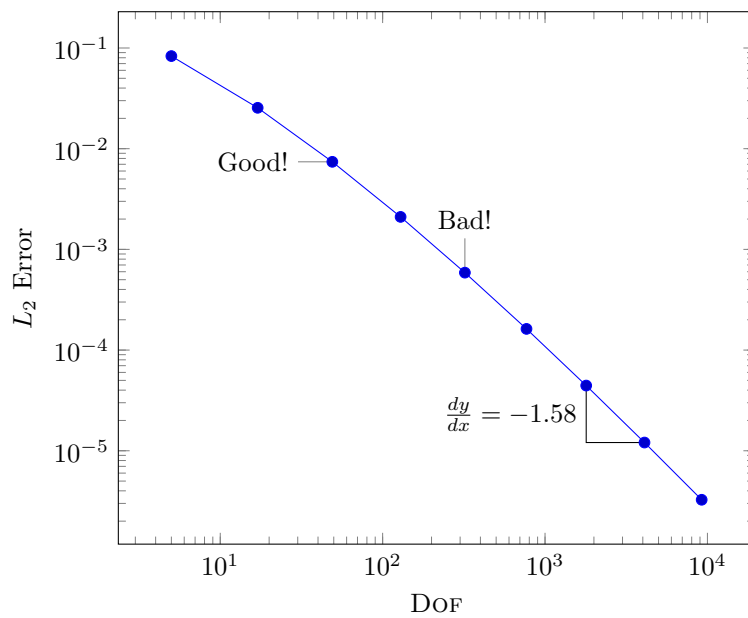




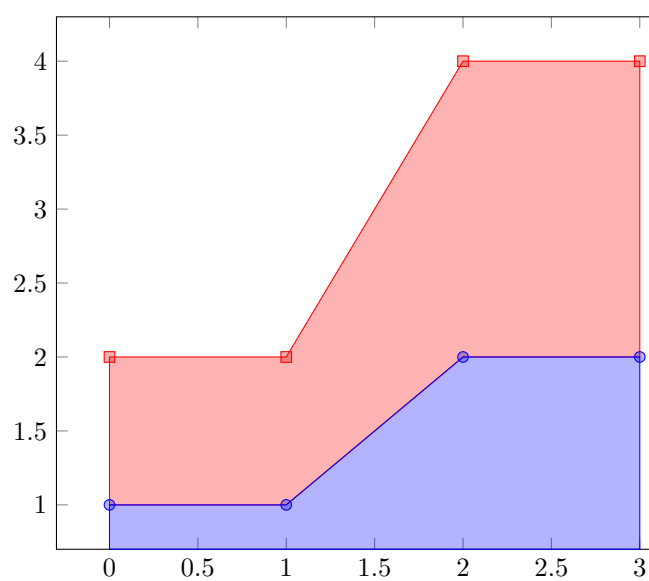
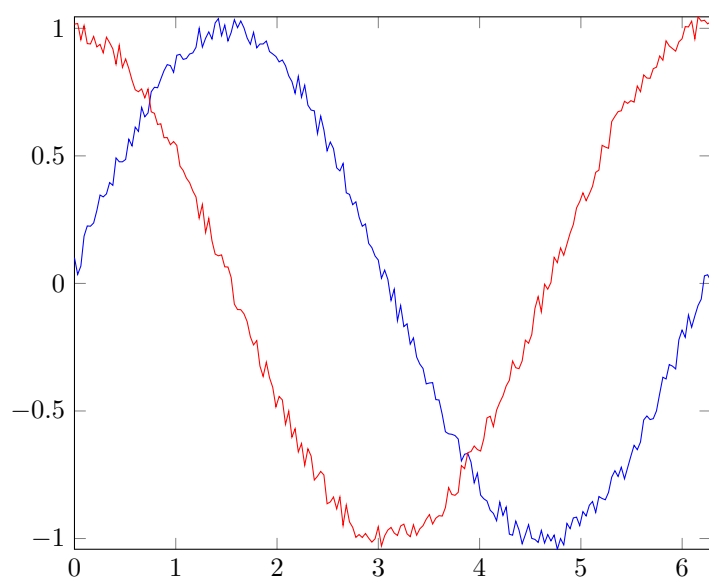
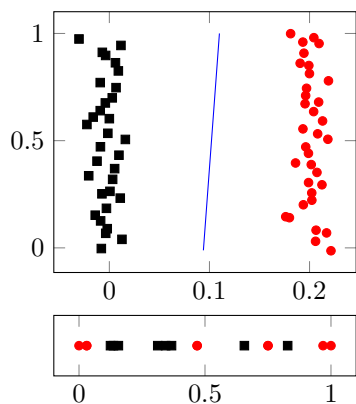
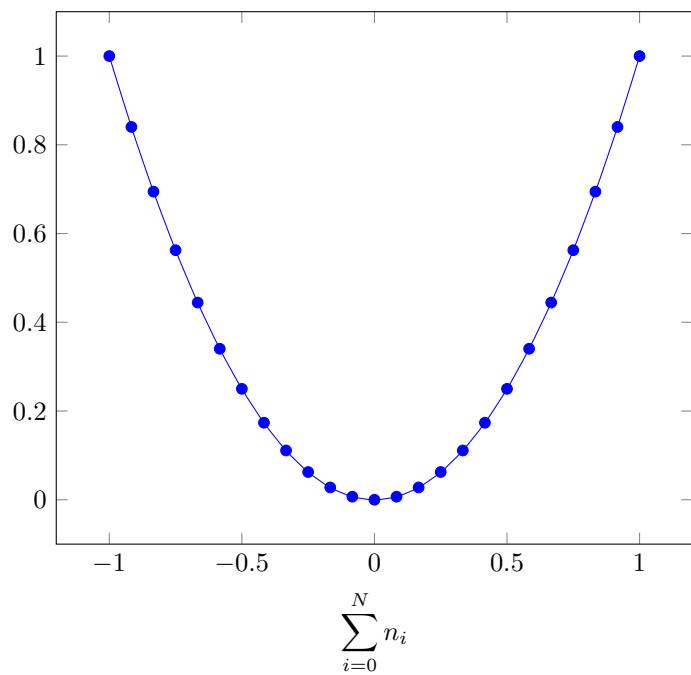
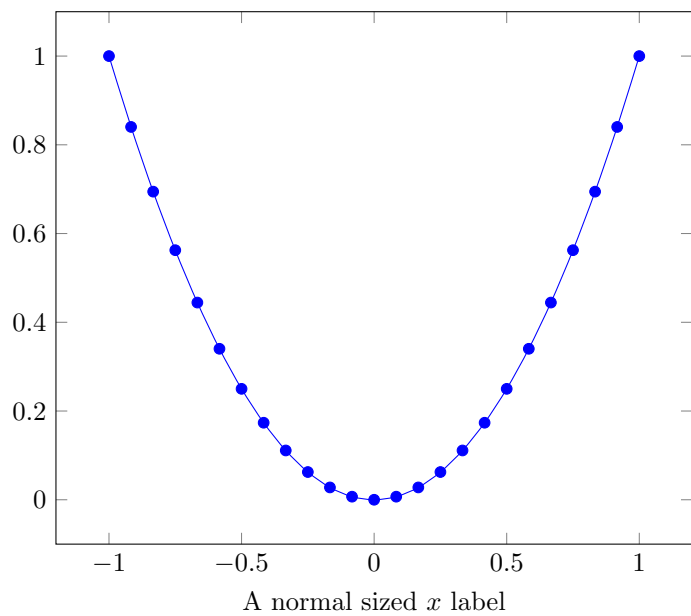


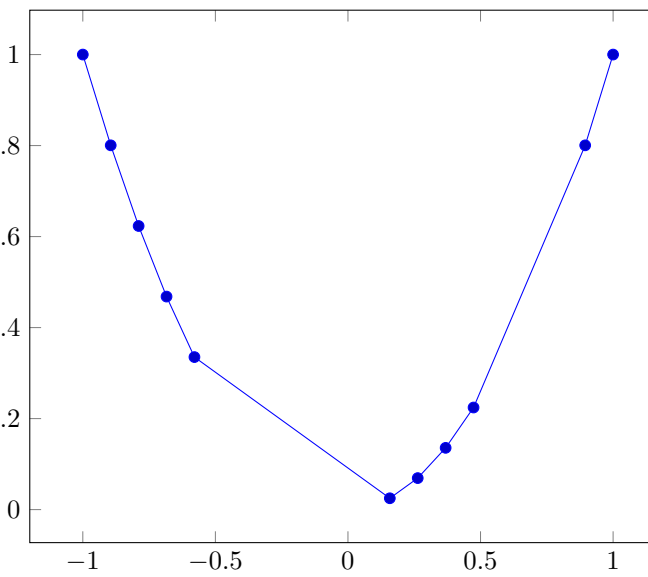
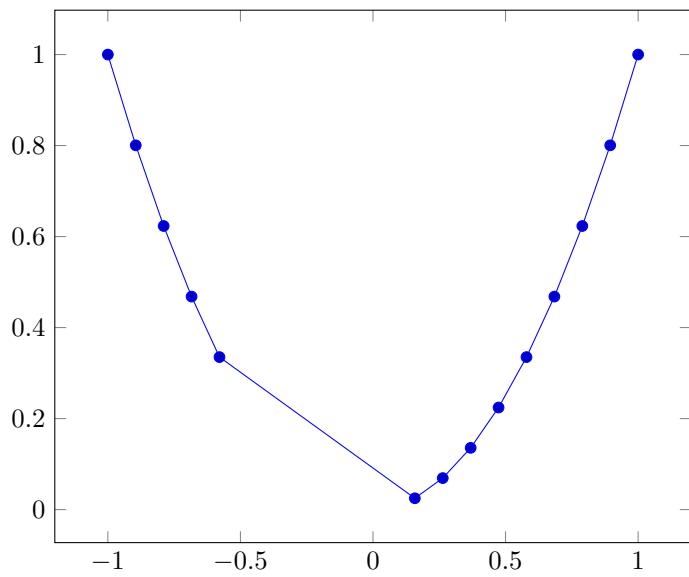
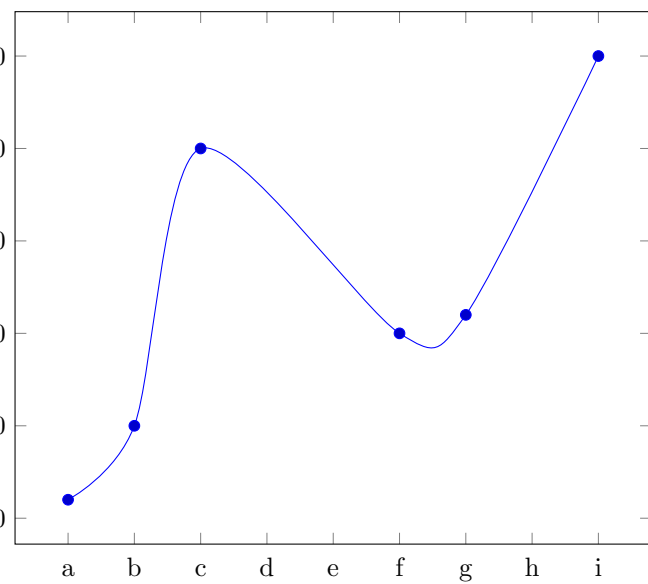
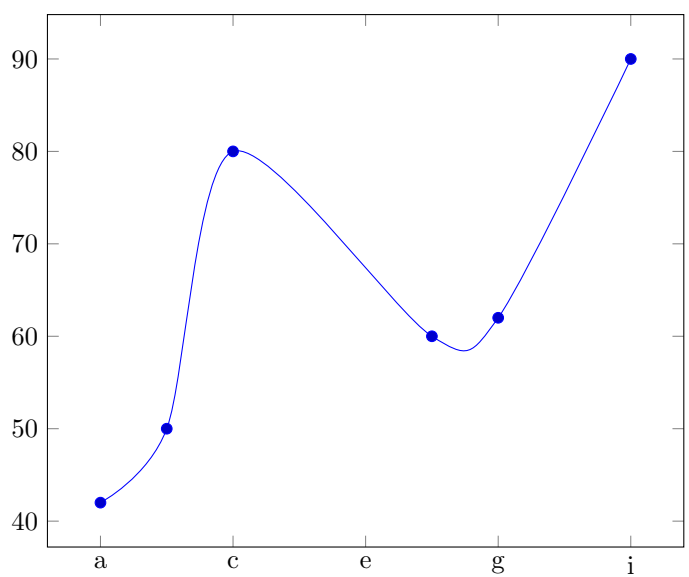
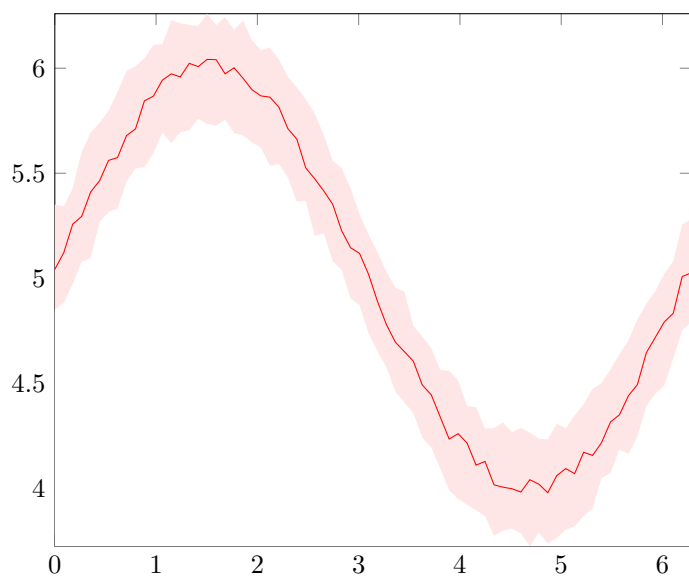




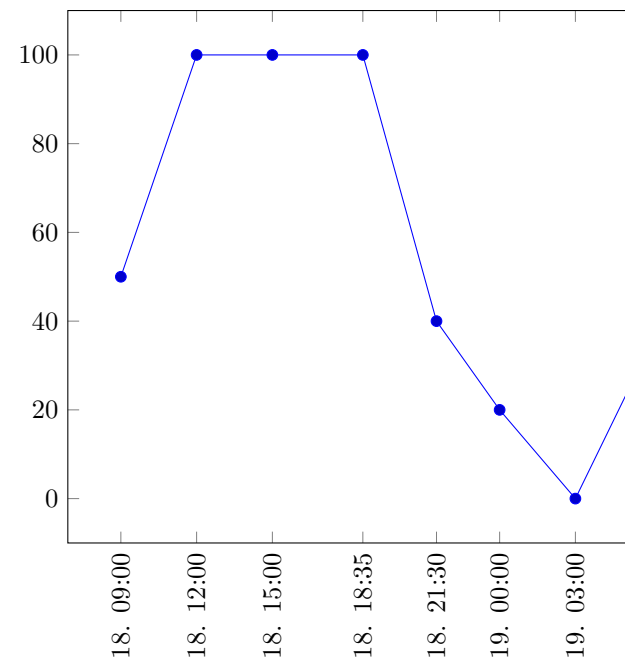
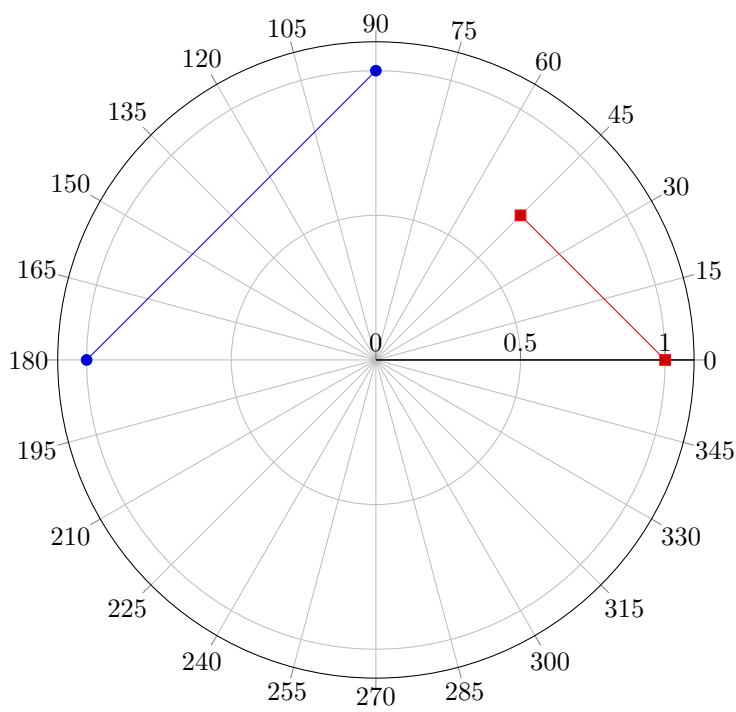
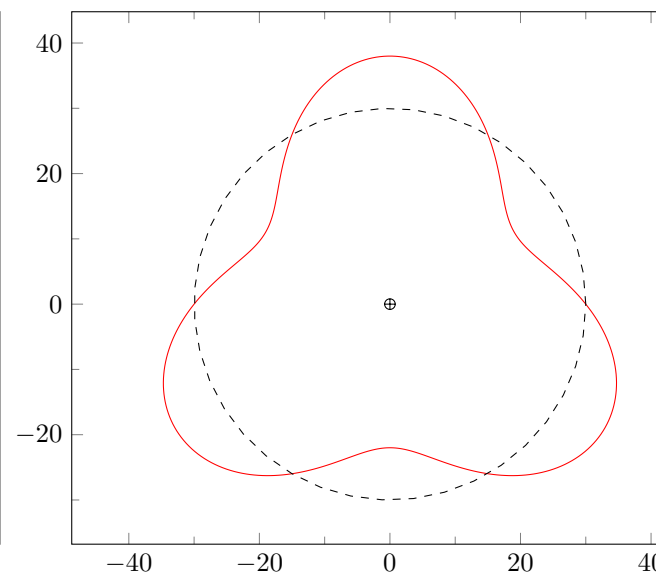
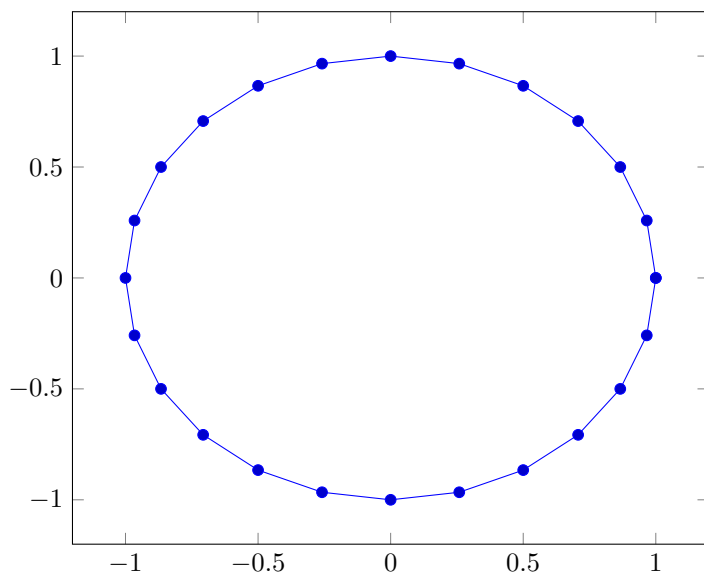


This is ● a picture, here ● another one.  
Aligning top edge of graphs:

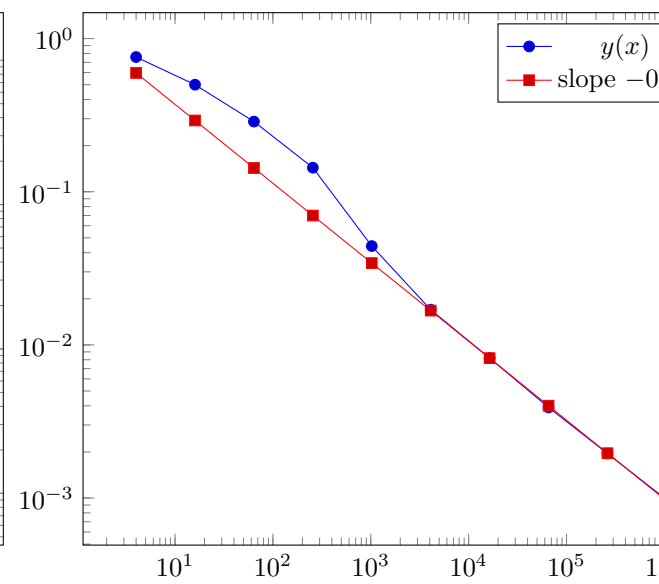
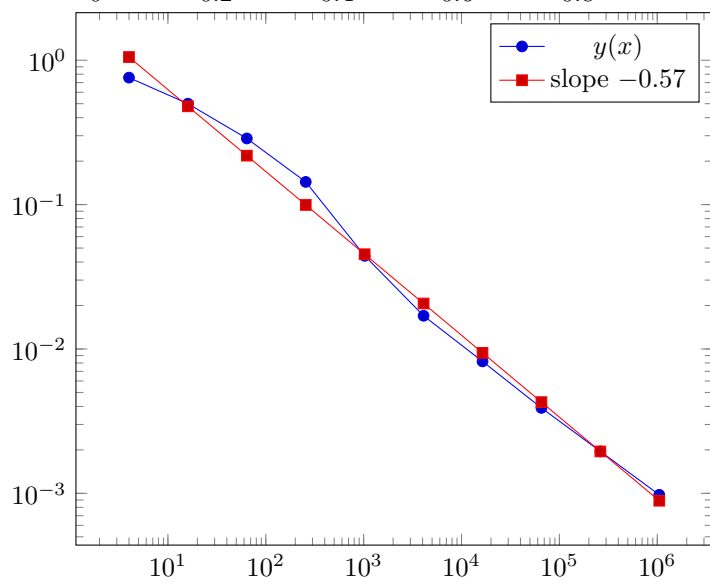
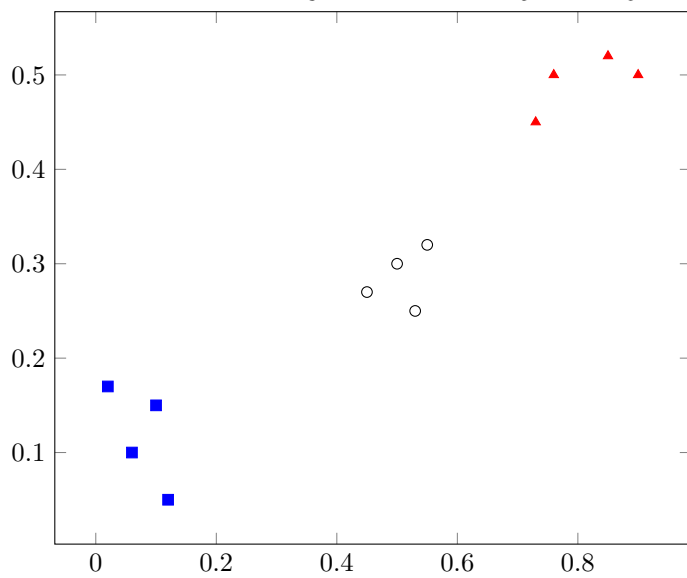
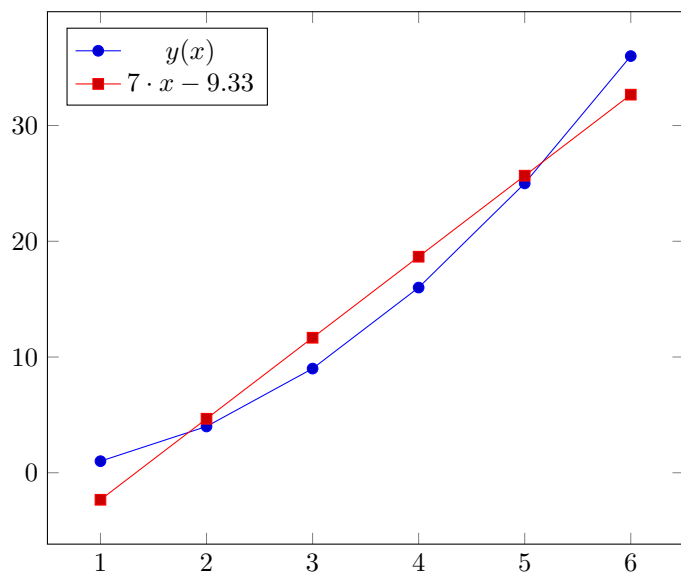


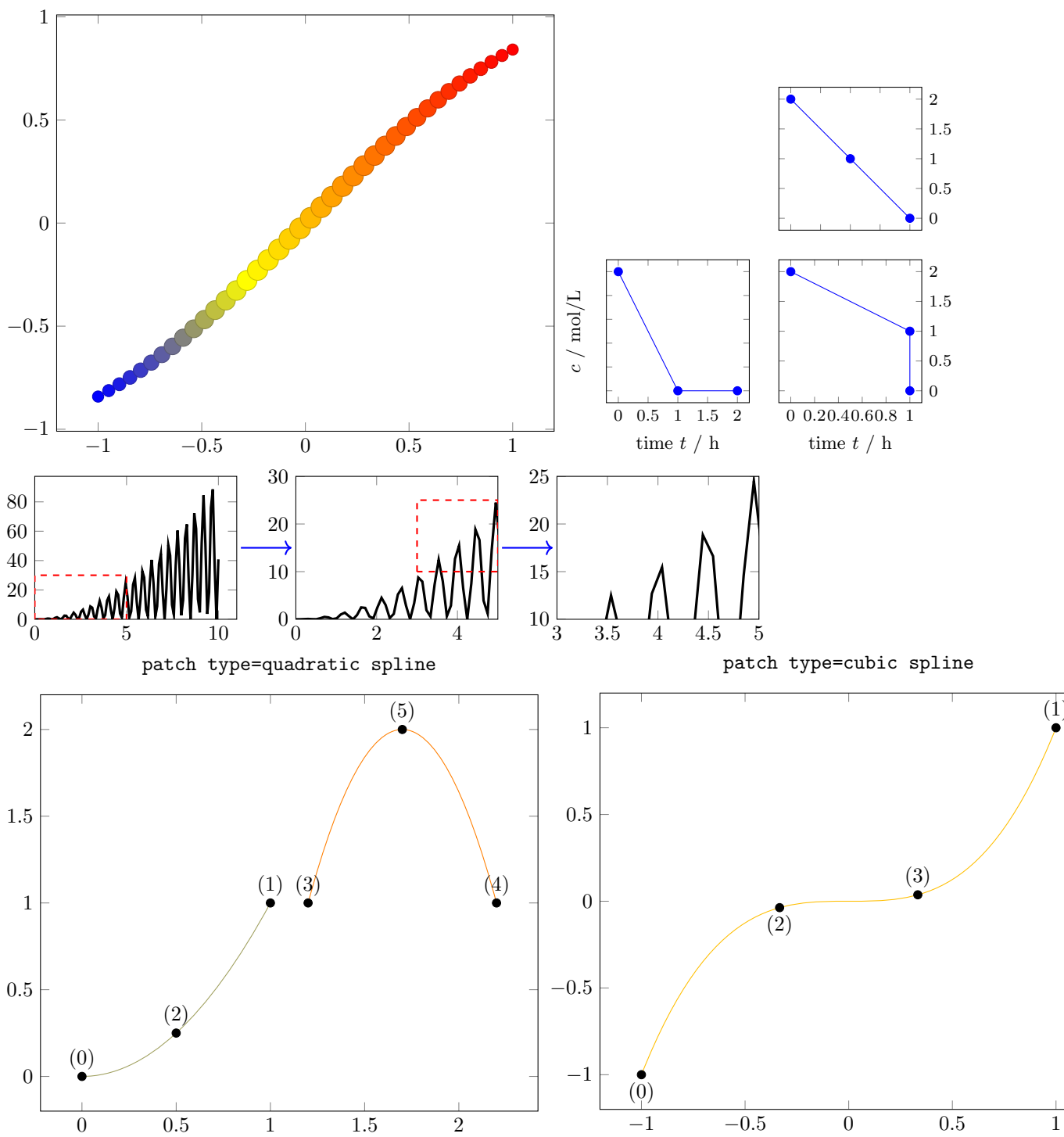






Attention: If you intend to use hours and minutes, you should always provide the date ZERO to maintain adequate precision!





## 1.21 Statistics

